Supporting Texts for
"On Statistical Significance of Combinatorial Regulations"
by Terada, A., Okada-Hatakeyama, M., Tsuda, K., Sese, J.

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Supporting Text 1: Mann-Whitney U Test

Decrease of the minimum p-value with respect to the number of genes in the Mann-Whitney U Test

In this paper, we used Fisher's exact test as the statistical test. LAMP can be applicable to any statistical test as long as it satisfies the following two properties: the existence of a non-zero minimum p-value and decrease of the minimum value to the number of target genes. Here, we prove that the Mann-Whitney U test satisfies these properties to show that it can be used in LAMP.

Suppose that we have N genes and that we know their expression ranks under a specific condition. Given a binding motif combination, the set of genes whose regulatory regions contain all the motifs is defined as J. N genes are classified into $x = |J|$ targeted and $N - x$ untargeted genes. Mann-Whitney U is defined as the probability that the ranks achieves more biased than J.

The p-value is achieved at the smallest value when expression levels of genes in J are larger than the others, or they are smaller than the others. The probability to appear the case is described as

$$1/\binom{N}{x}.$$

This is the minimum p-value of Mann-Whitney U.

This value decreases with increase of x for $1 \leq x \leq N/2$, and takes the minimum value when $x = \lfloor N/2 \rfloor$, which is non-zero value. Therefore, Mann-Whitney U can be used in LAMP.

Supporting Text 2: Comparison of LAMP with Bonferroni correction with four thresholds

Summary of the numbers of significant combinations detected by LAMP and Bonferroni correction with four different thresholds

We compared LAMP and Bonferroni correction on one yeast and two human datasets with four thresholds that is used to divide the gene expressions in up-regulated and unregulated. Tables in Section A show the summary of the results. Figures in Section B show the number of samples in which at least one significant combination was found. Figures in Section C show the number of significant combinations. The combinations found by the combinations are in Table S1.

A. Statistics of the number of significant combinations

The rows are:

- # of detected samples: The number of samples in which at least one motif combination is significant over all conditions (173 for yeast, 27 for EGF and 28 for HRG).
- # of significant combinations: The sum of the numbers of statistically significant motif combinations over all conditions.
- Maximum arity: The largest arity over all conditions.
- Avg. # of up-regulate genes: The average number of up-regulated genes over all conditions.
- Avgerage, minimum and maximum of m': The average, minimum and maximum value of m' over all conditions.

A. Yeast (The details are in Table S1A)

Threshold (log2 ratio)		0.5	1	1.5	2
Avg. # of up-regulated genes		990.86	363.62	171.36	95.29
# of detected samples	LAMP	157	135	113	95
	Bonferroni (<=2)	134	111	95	78
	Bonferroni (<=3)	103	95	71	57
# of significant combinations	LAMP	513	449	326	235
	Bonferroni (<=2)	308	264	192	137
	Bonferroni (<=3)	187	176	108	82
Stats of LAMP	Maximum arity	3	3	4	3
	Avg. of m'	243.30	366.43	446.30	498.34
	Min. of m'	132	183	233	290
	Max of m'	554	556	702	703

B. EGF induced sample (The details are in Table S1B)

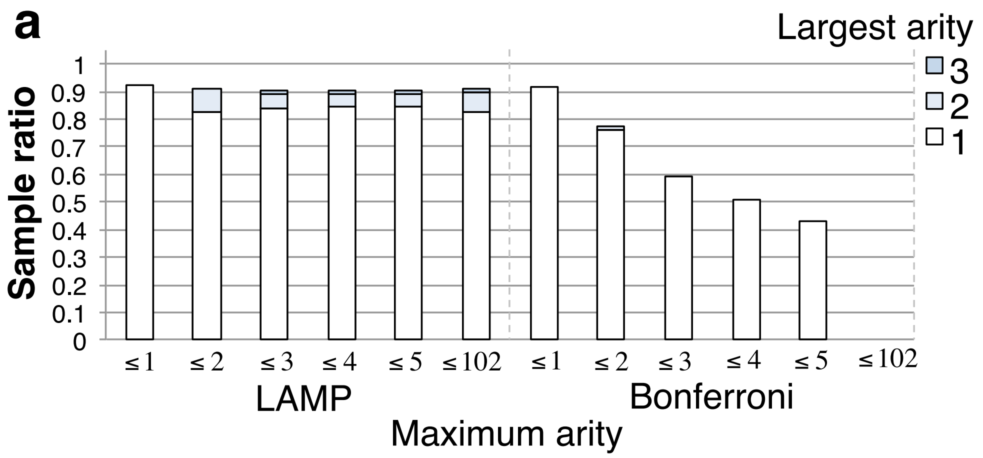
Threshold (log2 ratio)		0.5	1	1.5	2
Avg. # of up-regulated genes		2359.81	1226.67	777.04	491.26
# of detected samples	LAMP	17	20	16	10
	Bonferroni (<=2)	21	23	22	16
	Bonferroni (<=3)	8	14	13	6
# of significant combinations	LAMP	46	43	23	24
	Bonferroni (<=2)	78	70	41	38
	Bonferroni (<=3)	20	19	14	8
Stats of LAMP	Maximum arity	5	8	7	8
	Avg. of m'	1,742,870	3,669,596	5,180,881	7,169,767
	Min. of m'	1,459,869	2,700,718	3,750,336	5,238,103
	Max of m'	2,700,718	3,750,336	5,238,103	7,247,034

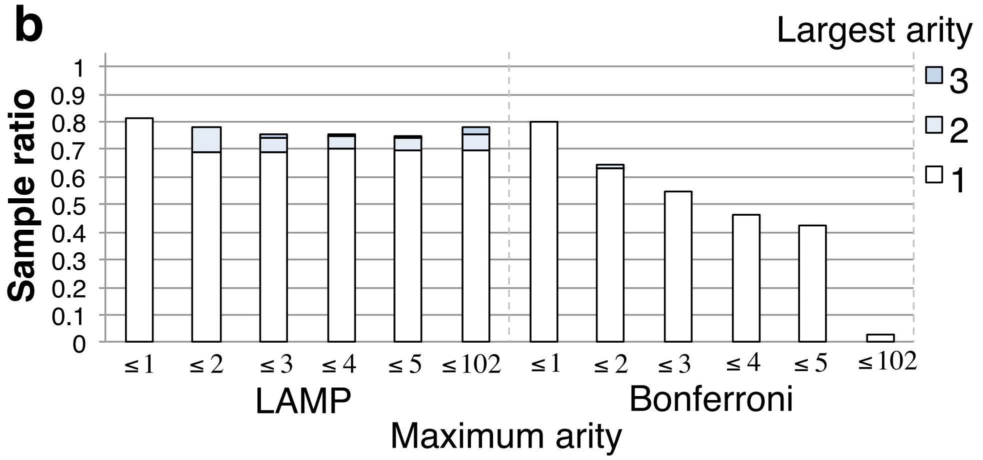
C. HRG induced sample (The details are in Table S1C)

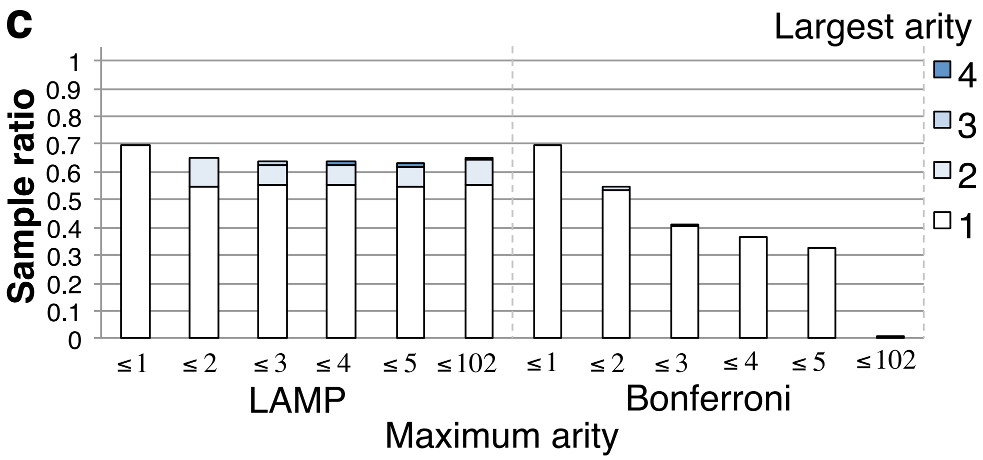
Threshold (log2 ratio)		0.5	1	1.5	2
Avg. # of up-regulated genes		4189.54	2337.36	1277.00	758.68
# of detected samples	LAMP	18	12	10	7
	Bonferroni (<=2)	25	21	12	12
	Bonferroni (<=3)	5	6	4	1
# of significant combinations	LAMP	26	23	16	11
	Bonferroni (<=2)	40	43	26	19
	Bonferroni (<=3)	5	7	7	1
Stats of LAMP	Maximum arity	6	5	5	6
	Avg. of m'	579,531	1,790,220	3,800,657	5,561,464
	Min. of m'	359,149	1,174,198	2,874,627	3,982,295
	Max of m'	1,174,108	2,874,627	5,542,428	7,635,557

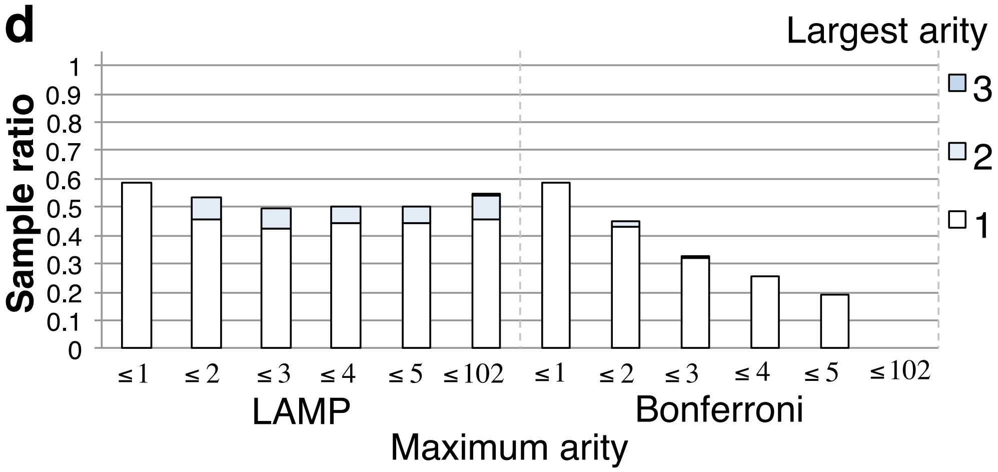
B. Comparisons of the numbers of samples in which at least one motif combination is significant between LAMP and Bonferroni correction.

B-1. Yeast





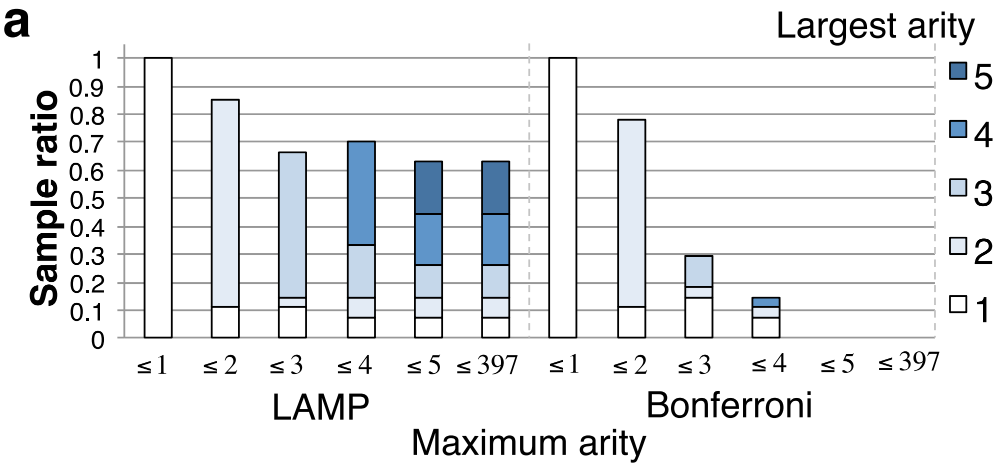


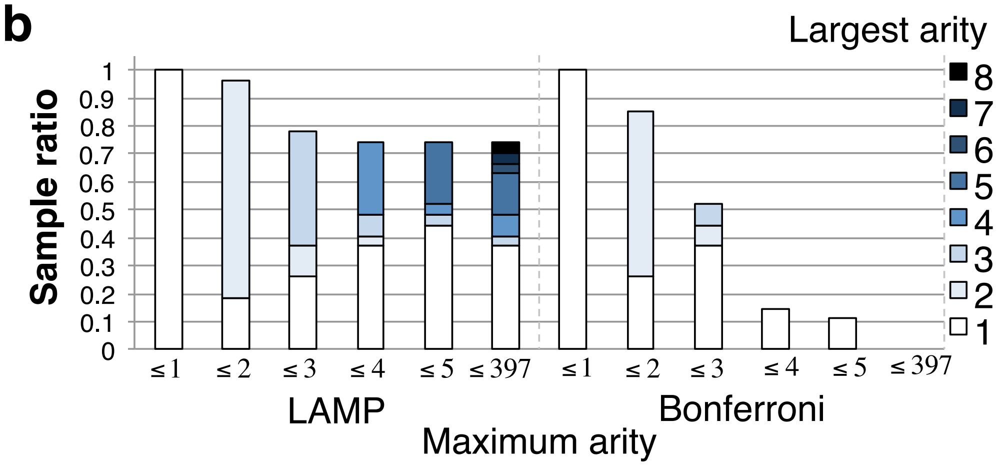


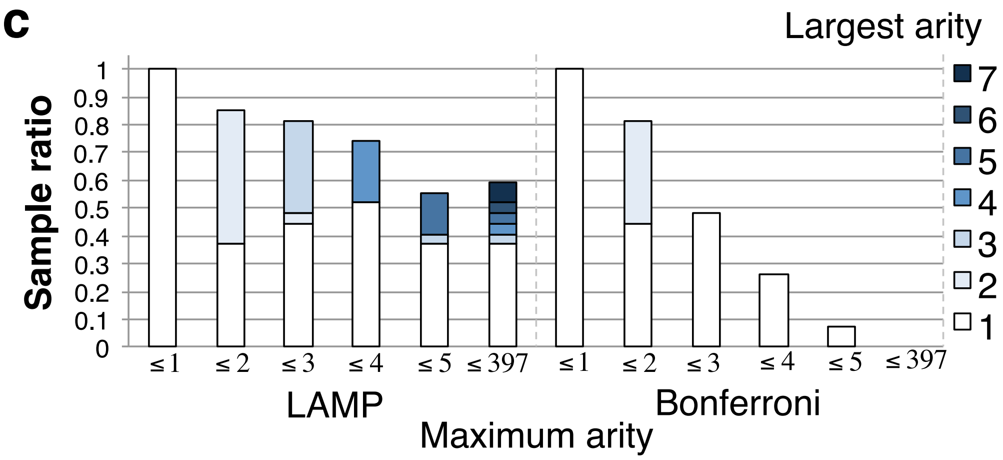
Sample ratios in which at least one motif combination is significant over 173 yeast stress environments. We varied the arity limit and computed the number of samples in which at least one sample was deemed significant for the specified arity limit. The number of motifs we used was 102. The significant level α was set to 0.05. We also used the Bonferroni correction to compute the motif combinations under three different expression thresholds, which correspond to the data shown in Supporting Table S1. For any threshold, the LAMP found at least one motif combination from at least half the samples even when the arity limit was removed. However, the number of samples detected using the Bonferroni correction decreased with the increasing arity limit, and the Bonferroni correction found significant combinations from only a few samples when the arity limit was removed. The colors indicate the largest arity. The LAMP discovered at most four-motif combinations, whereas the Bonferroni correction found at most two-motif combinations.

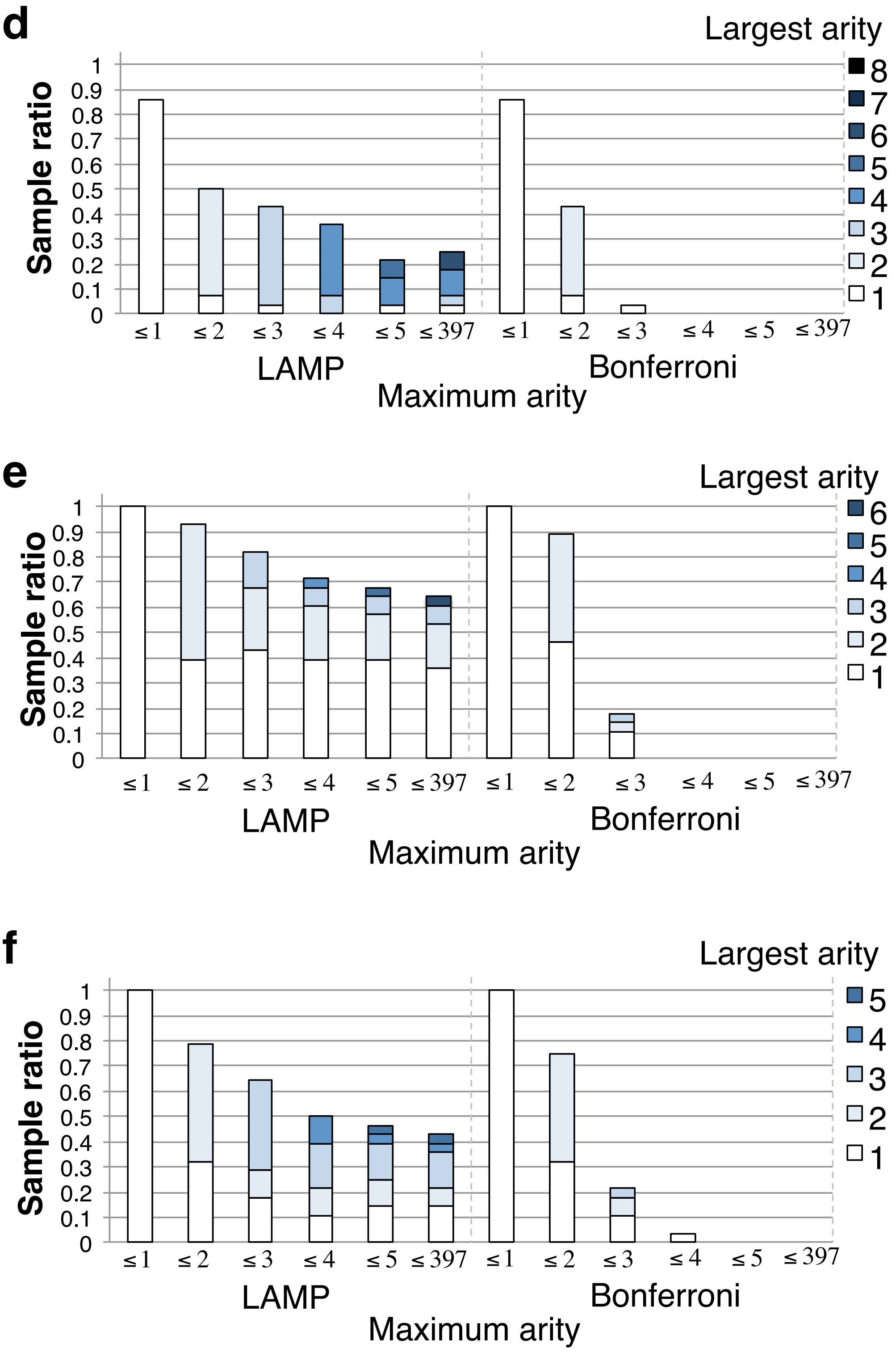
(a) Expression threshold = 0.5. (b) Expression threshold = 1.0. (c) Expression threshold = 1.5. (d) Expression threshold = 2.0.

B-2. Human MCF-7





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Largest arity
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Sample ratio
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≤ 397
LAMP
Bonferroni
Maximum arity
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Sample ratio
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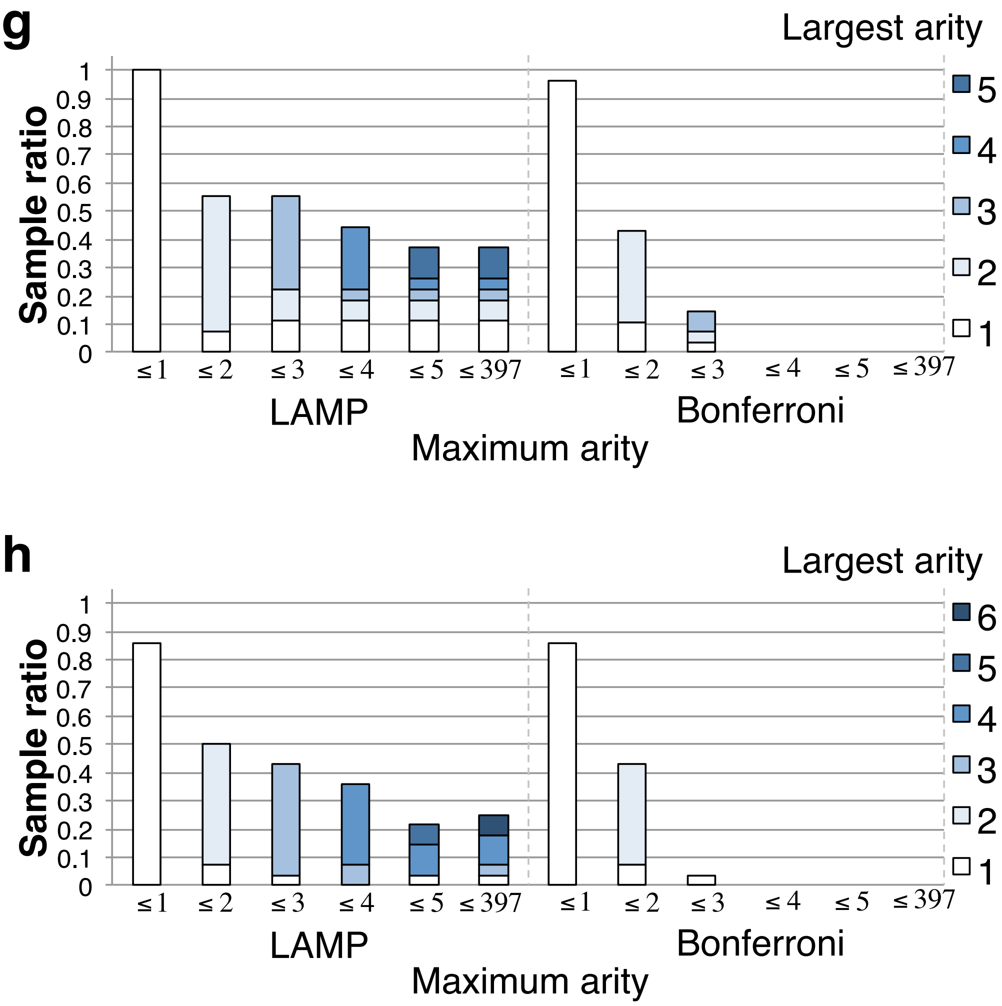
Sample ratio

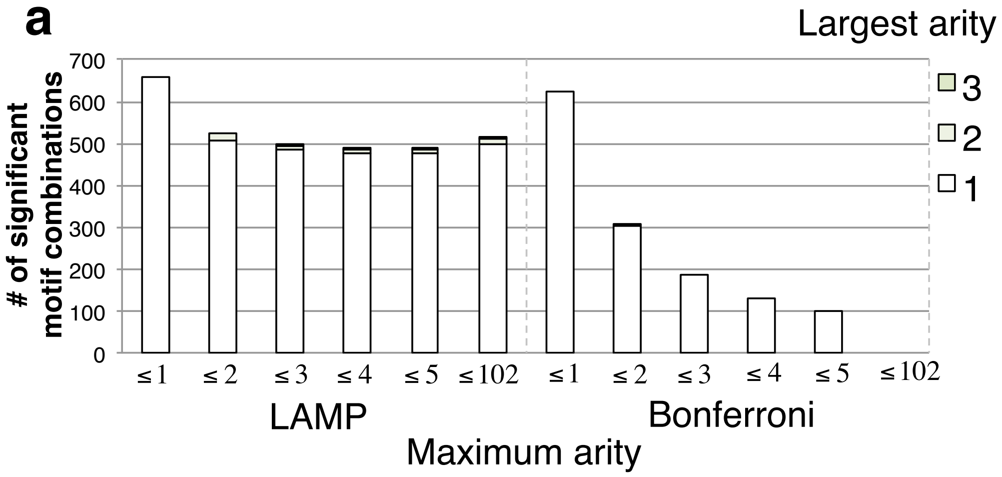


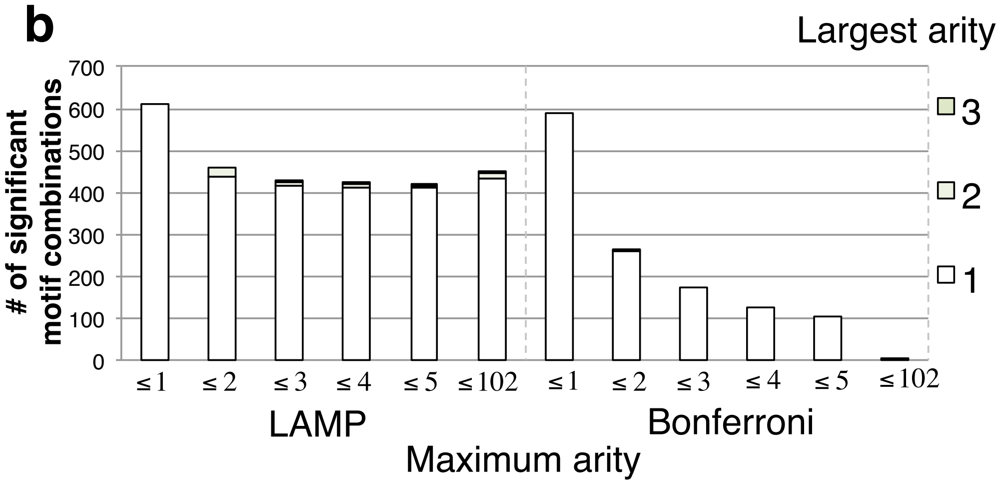
Sample ratios in which at least one motif combination was deemed significant in 27 HRG- and 28 HRG-induced MCF-7 cell samples. We varied the arity limit and computed the number of samples in which at least one sample deemed significant for the specified arity limit. The number of motifs was 397. The significance level α was set to 0.05. We computed the combinations under three different thresholds for performing Fisher's exact test. The colors indicate the largest arity.

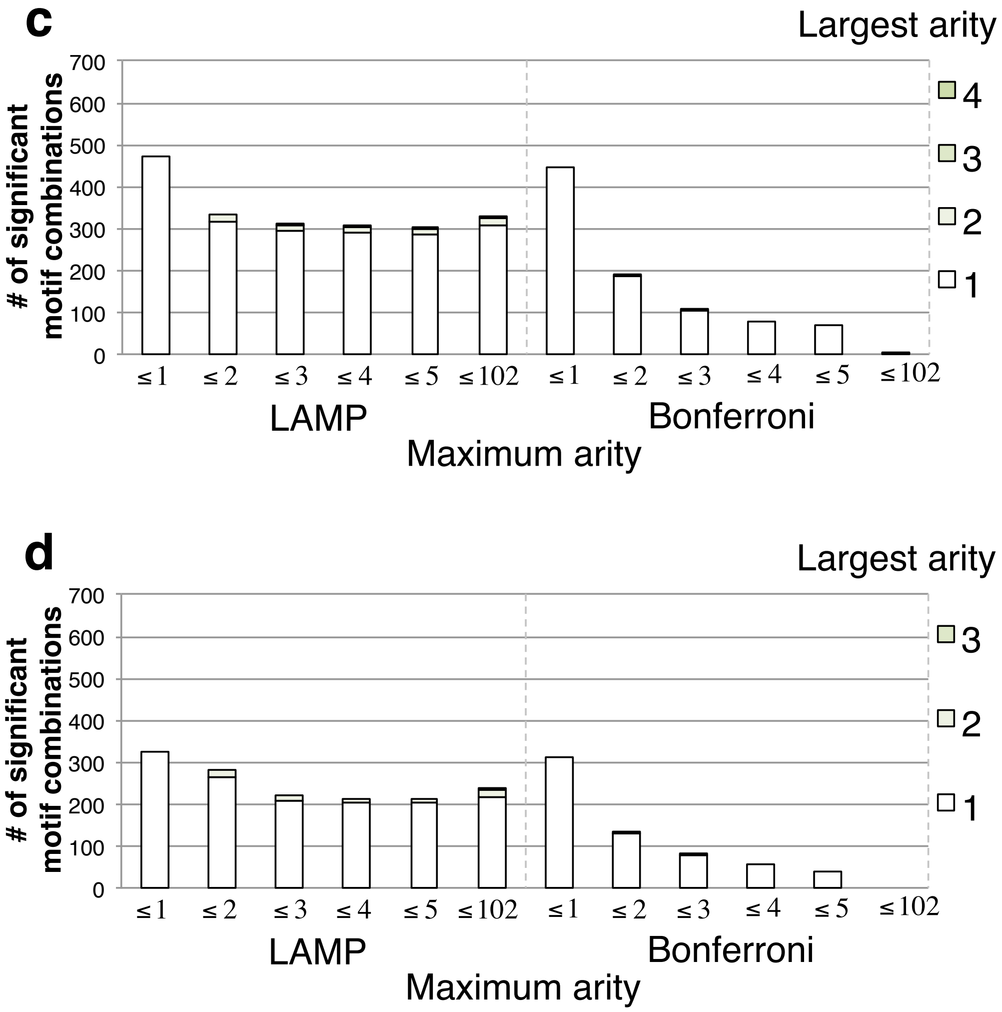
(a) EGF, expression threshold = 0.5. (b) EGF, expression threshold = 1.0.
(c) EGF, expression threshold = 1.5. (d) EGF, expression threshold = 2.0.
(e) HRG, expression threshold = 0.5. (f) HRG, expression threshold = 1.0.
(g) HRG, expression threshold = 1.5. (h) HRG, expression threshold = 2.0.

C. Comparison of the numbers of significant combinations between LAMP and Bonferroni correction.

C-1. Yeast



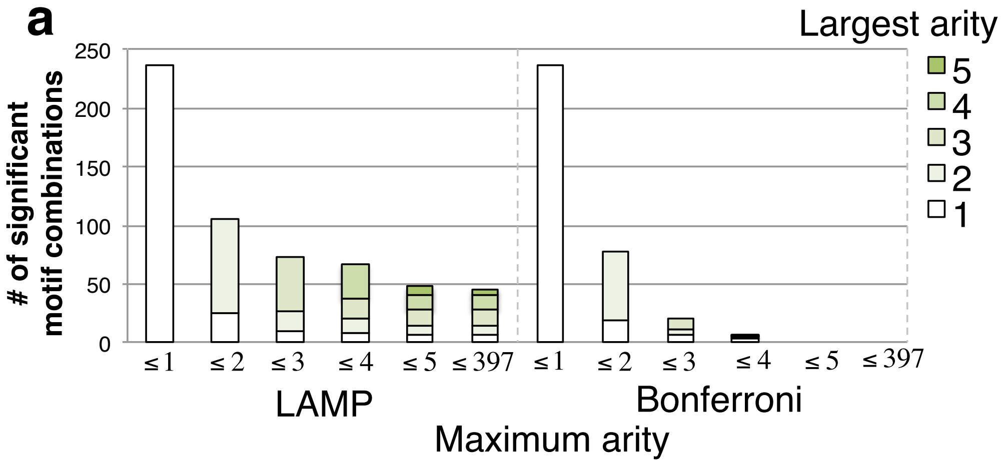


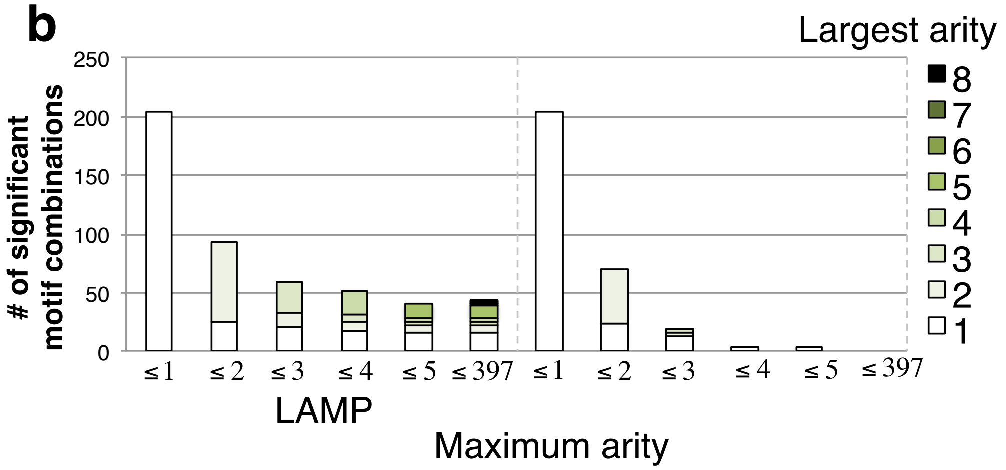


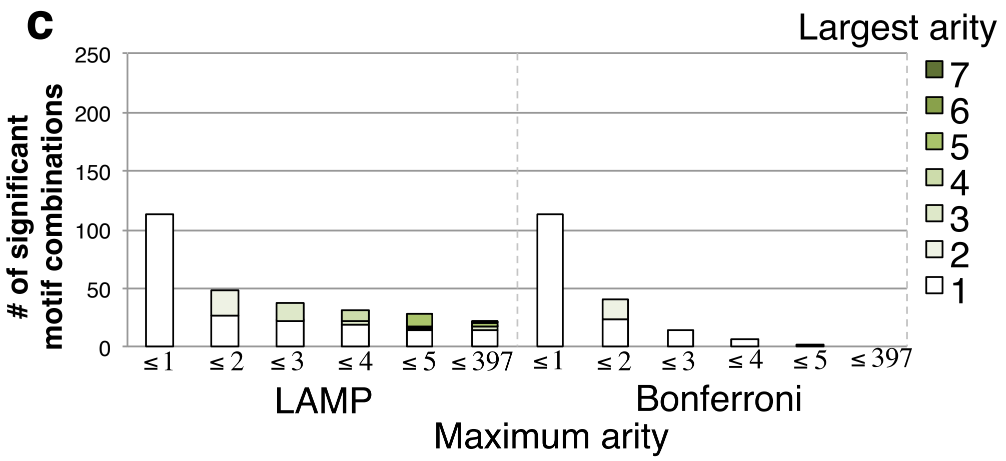
The number of statistically significant motif combinations in the 173 yeast stress environments. Each bar indicates the number of statistically significant motif combinations for a specific arity limit. Within the bar, the colors indicate the largest arity. We computed these combinations under three different expression thresholds for Fisher's exact test. The LAMP found more than 200 motif combinations even when the arity limit was removed, whereas the Bonferroni correction found 9 combinations under any threshold.

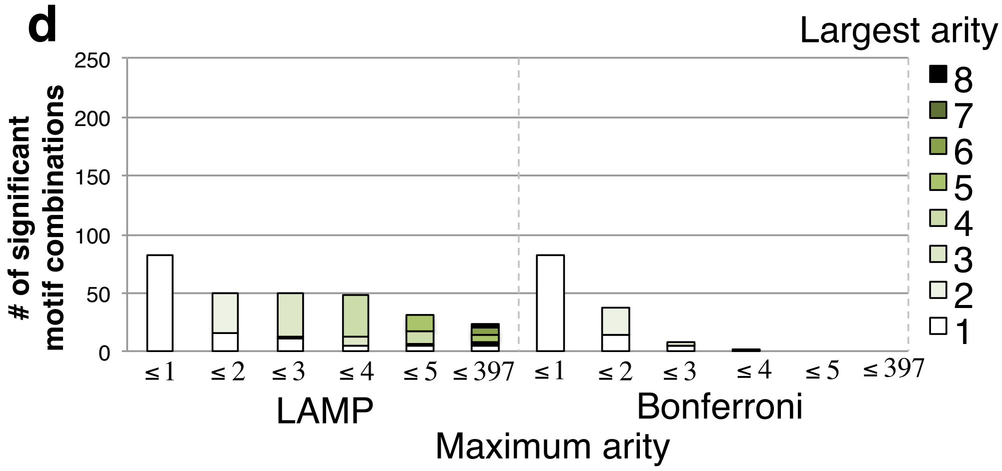
(a) Expression threshold = 0.5. (b) Expression threshold = 1.0. (c) Expression threshold = 1.5. (d) Expression threshold = 2.0.

C-2. Human MCF-7





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Largest arity
8
7
6
5
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3
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1
# of significant motif combinations
250
200
150
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50
0
≤ 1
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≤ 397
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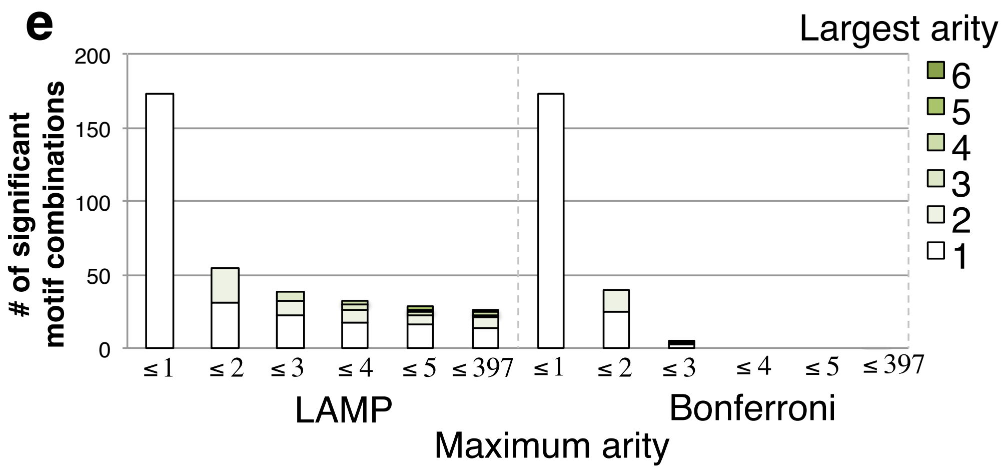
≤ 5
≤ 397
LAMP
Bonferroni
Maximum arity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Largest arity
6
5
4
3
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1
# of significant motif combinations
200
150
100
50
0
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≤ 3
≤ 4
≤ 5
≤ 397
≤ 1
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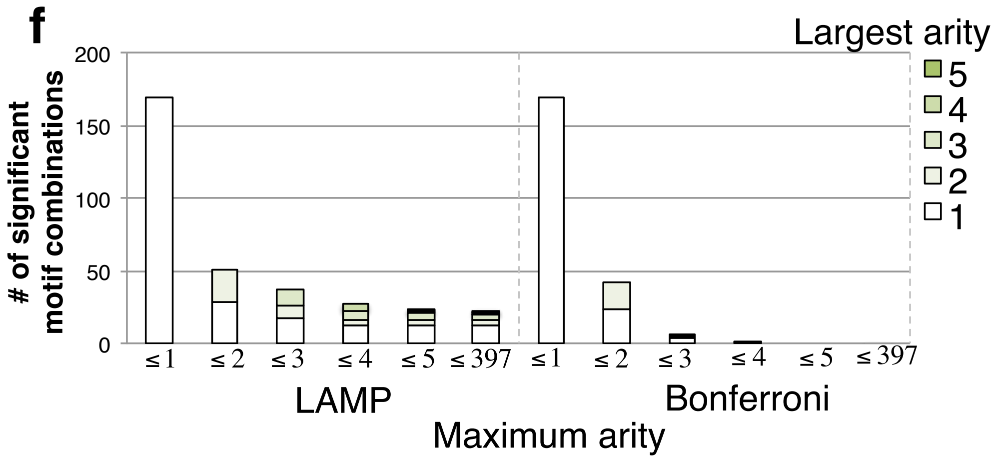
≤ 397
LAMP
Bonferroni
Maximum arity


f
Largest arity
5
4
3
2
1
# of significant motif combinations
200
150
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50
0
≤ 1
≤ 2
≤ 3
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≤ 5
≤ 397
≤ 1
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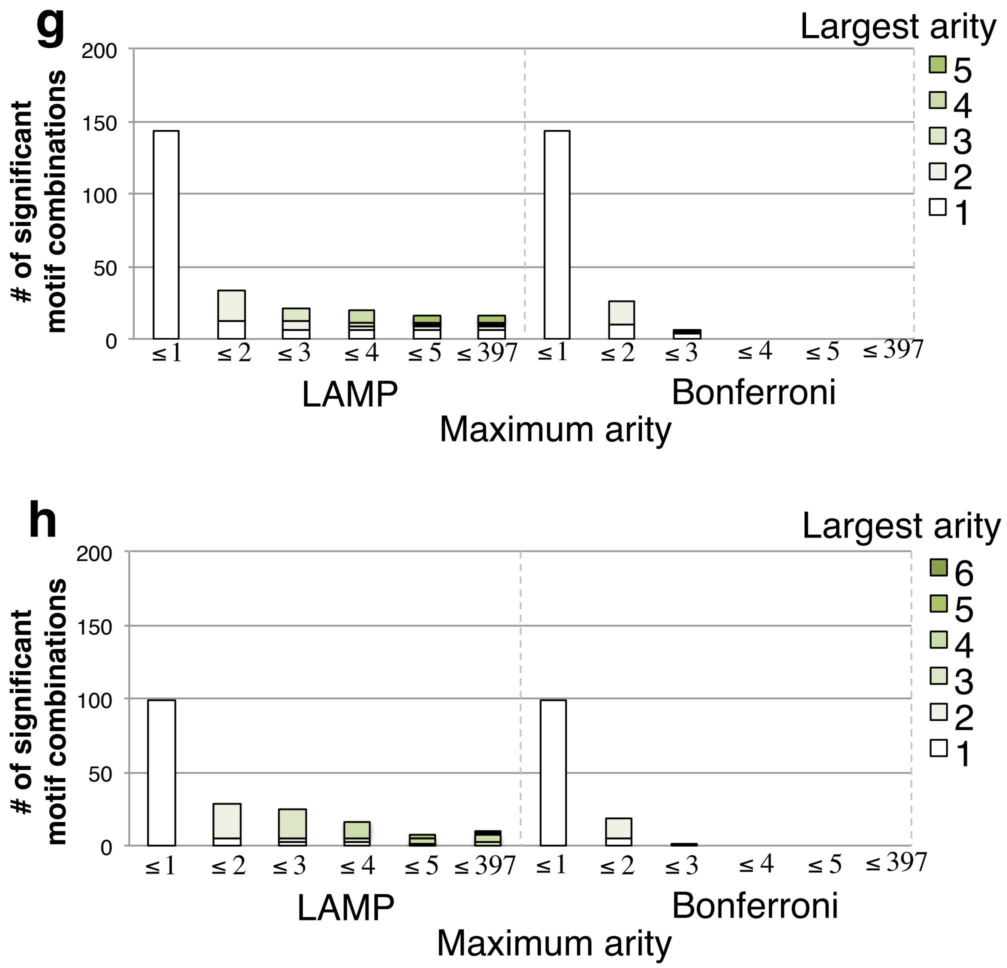
≤ 5
≤ 397
LAMP
Bonferroni
Maximum arity



The number of statistically significant motif combinations in 27 EGF and 28 HRG induced MCF-7 cell samples. Each bar indicates the number of statistically significant motif combinations for the specified arity limit. Within the bar, the colors indicate the largest arity. We computed the combinations under three different thresholds for performing Fisher's exact test. Whereas the Bonferroni correction detected only a few combinations when up to 5-motif combinations were considered, the LAMP found more than 16 combinations, including one 8-motif combination.
(a) EGF, expression threshold = 0.5. (b) EGF, expression threshold = 1.0.
(c) EGF, expression threshold = 1.5. (d) EGF, expression threshold = 2.0.
(e) HRG, expression threshold = 0.5. (f) HRG, expression threshold = 1.0.
(g) HRG, expression threshold = 1.5. (h) HRG, expression threshold = 2.0.

Supporting Text 3: Details of the TFs that bind to the motifs in Fig. 4

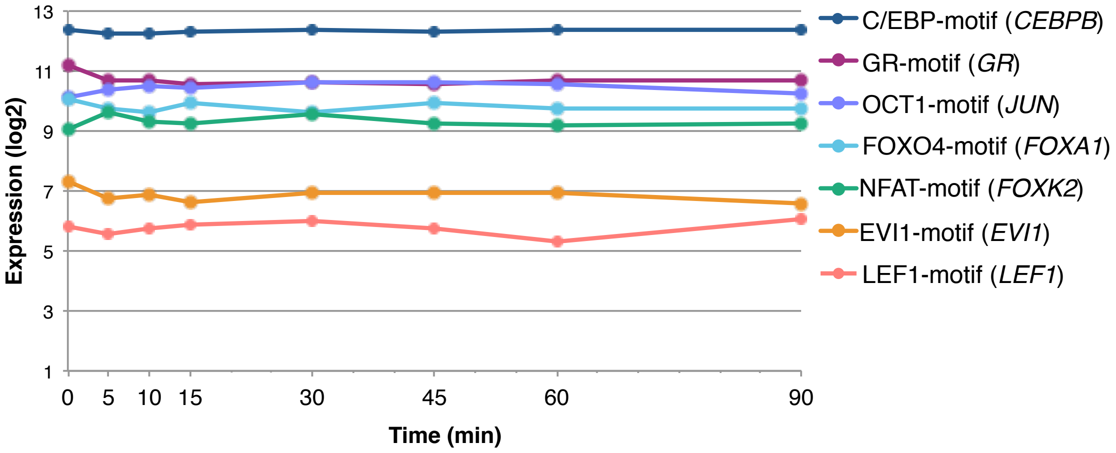
TFs that bind to the motifs in Fig. 4 and their expression levels.

A. The eight-motif combination

A-1. The list of TFs that can bind to the motif

Motif	TFs that bind to the motif
CTTTAAR	-
C/EBP	*C/EBP, CEBPB*
EVI1	*EVI1*
FOXO4	*FOXA1, FOXA2, FOXO1, FOXO4, HMGA1*
GR	*GR*
LEF1	*LEF1*
NFAT	*ELOF1, FOXK2, NFATC1, NFATC2, NFATC3, NFATC4*
OCT1	*GATA1, JUN, NFYA, NFYB, NFYC, OCT1, OCT2, SP1*

A-2. The expression levels of TFs that bind to the motifs.



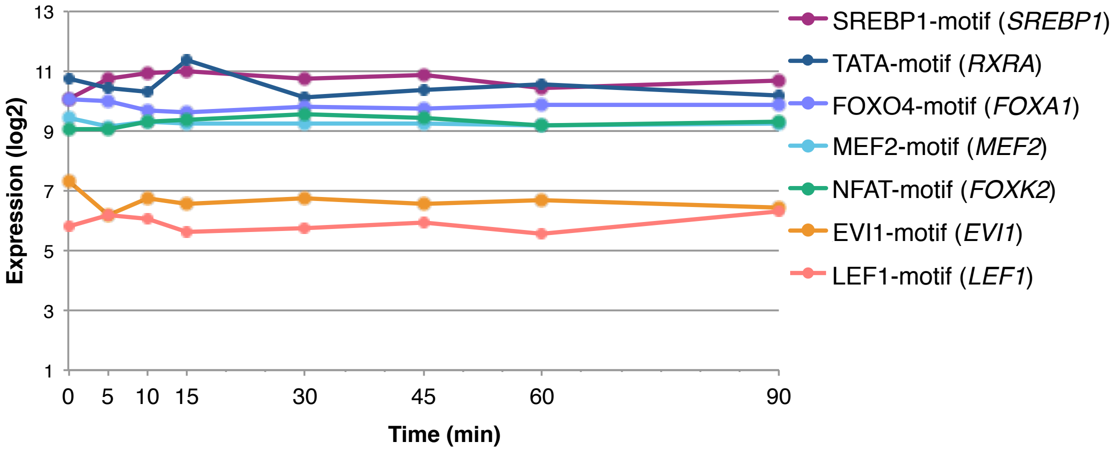
Expression levels of TFs that bind to the motifs in the eight-motif combination. Each line corresponds to one motif and shows the expression levels of a TF that can bind to the motif. When single motif is recognized by multiple TFs, we selected the TF whose expression level under control (0 min) among TFs that can bind to the motif is the highest one. The name on each line is the motif name, and the TF name is in parentheses. For example, since *CEBPB* can bind to the C/EBP-motif and the expression of *CEBPB* is higher than that of *C/EBP* at 0 min, the expression levels of *CEBPB* are described in the figure as a blue line. When the TF has multiple probes in Affimetrix chip, the probe that has the highest expression level at 0 min is used. The motif "`CTTTAAR`" is not shown because no TF bound to the motif is identified yet.

B. The seven-motif combination

B-1. The list of TFs that can bind to the motifs.

Motif	TFs that bind to the motif
EVI1	*EVI1*
FOXO4	*FOXA1, FOXA2, FOXO1,FOXO4, HMGA1*
LEF1	*LEF1*
MEF2	*MEF2, MEF2D*
NFAT	*ELOF1, FOXK2, NFATC1, NFATC2, NFATC3, NFATC4*
SREBP1	*SREBP1*
TATA	*GTF2B, HINFP, RXRA, TBP, THRB, TMF1*

B-2. The expression levels of the TFs that bind to the motifs.



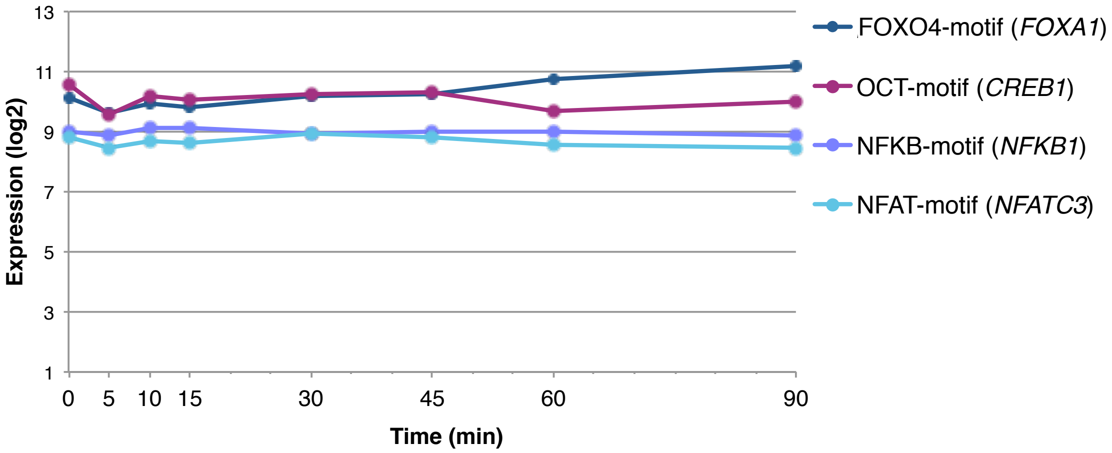
Expression levels of the TFs that bind to the motifs in seven-motif combination. Each line indicates the expression levels of the TF that binds to the motif. If multiple TFs can be bound to the motif, the expression levels of the TF whose expression level at control sample is the highest are shown. The name of the TF is in parentheses.

C. The five-motif combination

C-1. The list of TFs that can bind to the motifs

Motif	TFs that bind to the motif
AACTTT	-
FOXO4	*FOXA1, FOXA2, FOXO1, FOXO4, HMGA1*
NFKB	*NFKB1, NFKB2, REL, RELA*
OCT	*CREB1, GATA1, JUN, NFYA, NFYB, NFYC, POU5F1, POU5F1B, SP1*
NFAT	*ELOF1, FOXK2, NFATC1, NFATC2, NFATC3, NFATC4*

C-2. The expression levels of the TFs that bind to the motifs.



Expression levels of the TFs that bind to the motifs in the five-motif combination. Each line indicates the expression levels of the TF that binds to the motif. If multiple TFs can be bound to the motif, the expression levels of the TF whose expression level at control sample is the highest are shown. The name of the TF is in parentheses. The motif "`AACTTT`" is not shown because no TF bound to the motif is identified yet.

Supporting Text 4: Monotonicity of the minimum p-value

Our algorithm takes advantage of the fact that the minimum p-value decreases to its occurrence frequency. In this section, we show the detail of the minimum p-value.

Suppose that we have N genes. Only one expression level is available for each of the N genes. Given a motif combination, the genes are partitioned in two ways. In one way, the genes are classified into x targeted and $N - x$ untargeted genes, depending on whether they are targeted by all of the members of the motif combination or not. In the other way, they are classified into n_u up-regulated genes and $N - n_u$ unregulated genes. Let n be the number of genes that are targeted and upregulated.

Using One-sided Fisher's exact test, the p-value of the motif combination is computed as

$$p = \sum_{n_x=n}^{B} P(n_x), P(n_x) = \binom{n_u}{n_x}\binom{N-n_u}{x-n_x}\bigg/\binom{N}{x},$$

where $B = \min\{n_u, x\}$. If we regard that n is a variable, the minimum value of p is achieved at $n = B$, and described as

$$f'(x) = \binom{n_u}{x}\bigg/\binom{N}{x} \text{ (for } x \le n_u\text{)}, \binom{N-n_u}{x-n_u}\bigg/\binom{N}{x} \text{ (for } x > n_u\text{)}.$$

In the most case, $x \le n_u$, and the following Property 1 confirms the monotonicity of the minimum p-value, which is required to use the function in LAMP. On the other hand, when $x > n_u$, the property is not satisfied. Therefore, we define a function which is smaller than the minimum p-value to satisfy the monotonicity.

Property 1. *For* $1 \le x < N/2$ *and* $x \le n_u$*,* $f'(x) \le f'(x-1)$ *holds.*

Proof. Between x and $x - 1$, the following equation holds:

$$\begin{aligned}\binom{n_u}{x} &= \frac{n_u(n_u-1)\cdots(n_u-x+2)(n_u-x+1)}{x!}\\ &= \frac{n_u-x+1}{x}\frac{n_u(n_u-1)\cdots(n_u-x+2)}{(x-1)!}\\ &= \frac{n_u-x+1}{x}\binom{n_u}{x-1}.\end{aligned}$$

Similarly,

$$\binom{N}{x} = \frac{N-x+1}{x}\binom{N}{x-1}.$$

Based on these equations,

$$\begin{aligned} f'(x) &= \binom{n_u}{x} / \binom{N}{x} \\ &= \left\{ \frac{n_u - x + 1}{x} \binom{n_u}{x-1} \right\} / \left\{ \frac{N - x + 1}{x} \binom{N}{x-1} \right\} \\ &= \left\{ \frac{n_u - x + 1}{x} / \frac{N - x + 1}{x} \right\} \left\{ \binom{n_u}{x-1} / \binom{N}{x-1} \right\} \\ &= \frac{n_u - x + 1}{N - x + 1} f'(x-1) \end{aligned}$$

From $n_u \leq N$, $(n_u - x + 1)/(N - x + 1) \leq 1$. Hence, $f'(x) \leq f'(x-1)$. □

For $x > n_u$, the similar calculation of Property 1 shows that $f'(x)$ increases to x monotonically. LAMP requires a monotonically decreasing function to x, and hence $f'(x)$ cannot be used as the minimum p-value directly. Instead of the function, we use

$$f'(x) = 1/\binom{N}{n_u}$$

as the minimum value since it is smaller than $f'(x)$ and constant, which means that f' is a monotonically decreasing function.

By combining these two formulas, the minimum p-value $f(x)$ that satisfies the monotonicity is defined as

$$f(x) = \binom{n_u}{x} \Big/ \binom{N}{x} \text{ (for } x \leq n_u\text{)}, \; 1/\binom{N}{n_u} \text{ (for } x > n_u\text{)}.$$

Supporting Text 5: Frequent itemset mining algorithm

Overview of the frequent itemset mining algorithms

We here provide an overview of frequent itemset mining algorithms. The frequent itemset mining problem is to list all patterns that appear frequently in a data. One typical application of this problem is to find sets of items (itemsets) that customers are likely to purchase on a given trip to the store. The itemset that satisfies the condition is called a frequent itemset. In this study we used the algorithm to list up sets of motifs that share more than λ target genes.

We here introduce how the frequent itemset mining algorithm efficiently lists up the frequent itemsets. For the listing, the following property is used. Given k-motif combination T that targets x genes. Let t be a motif which is not in T and let us generate T' by adding t to T. The number of target genes of T' is smaller or equal to that of T. From this property, if x becomes less than λ, the number of target genes of any T' is less than λ, and hence it guarantees that T' contains no motif combinations that target λ or more genes.

The frequent itemset mining algorithm generates the motif combinations from lower-arity combinations. It generates all single motifs first, and motifs that target λ or more genes are selected. Let $\mathbf{L}_1$ be the set of the selected motifs. In LAMP, all motifs in the $\mathbf{L}_1$ are testable because their bounds of the minimum p-value are less than the candidate p-value. Then, the algorithm generates 2-motif combinations by combining two motifs in $\mathbf{L}_1$ and selects 2-motifs that target λ or more genes. Since the number of target genes of a 2-motif combination is smaller or equal to both single motifs in the 2-motif, we generate the 2-motif only from the motifs in $\mathbf{L}_1$. 2-motif combinations that target λ or more genes are stored in $\mathbf{L}_2$.

Let $\mathbf{L}_k$ be the list of k-motif combinations that target λ or more genes. From the list, $\mathbf{L}_{k+1}$ can be generated. The itemset mining algorithm repeats this process until $\mathbf{L}_k$ contains no motif combinations. By combining all $\mathbf{L}_k$, all itemsets that target λ or more genes are listed without the generation of entire combinations.

Based on this idea, the first algorithm to efficiently list up the frequent itemsets called *Apriori* was introduced by Agrawal and Shrikant [31]. Han *et al.* [32] introduced more efficient algorithm under large memory environment to list up frequent itemsets, called FP-tree. It generates a tree of items in frequent itemsets, and then lists up the frequent items using the tree. Uno *et al.* [33] proposed a memory efficient algorithm, called LCM. We used the Uno's implementation to find frequent sets of motifs.

Supporting Figures

Supporting Fig. S1.

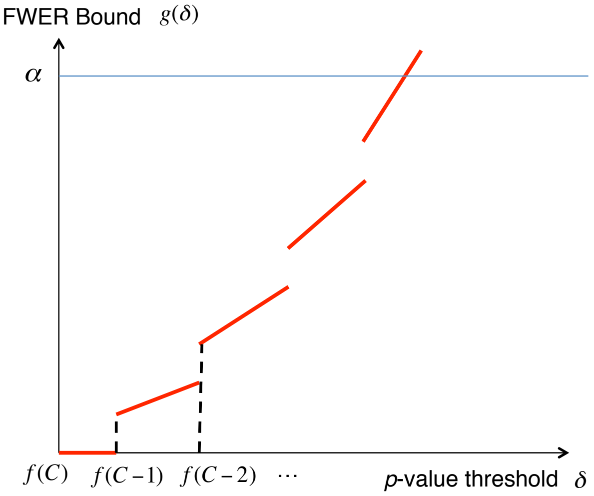


Illustration of the relationship between δ and $g(\delta)$. The red lines form a piece-wise linear function. The gaps are located at $f(\lambda)$, where $\lambda = C, C-1, ..., 1$. α is the significance level. The crossing point of the two lines indicates the optimal correction.

Supporting Fig. S2.

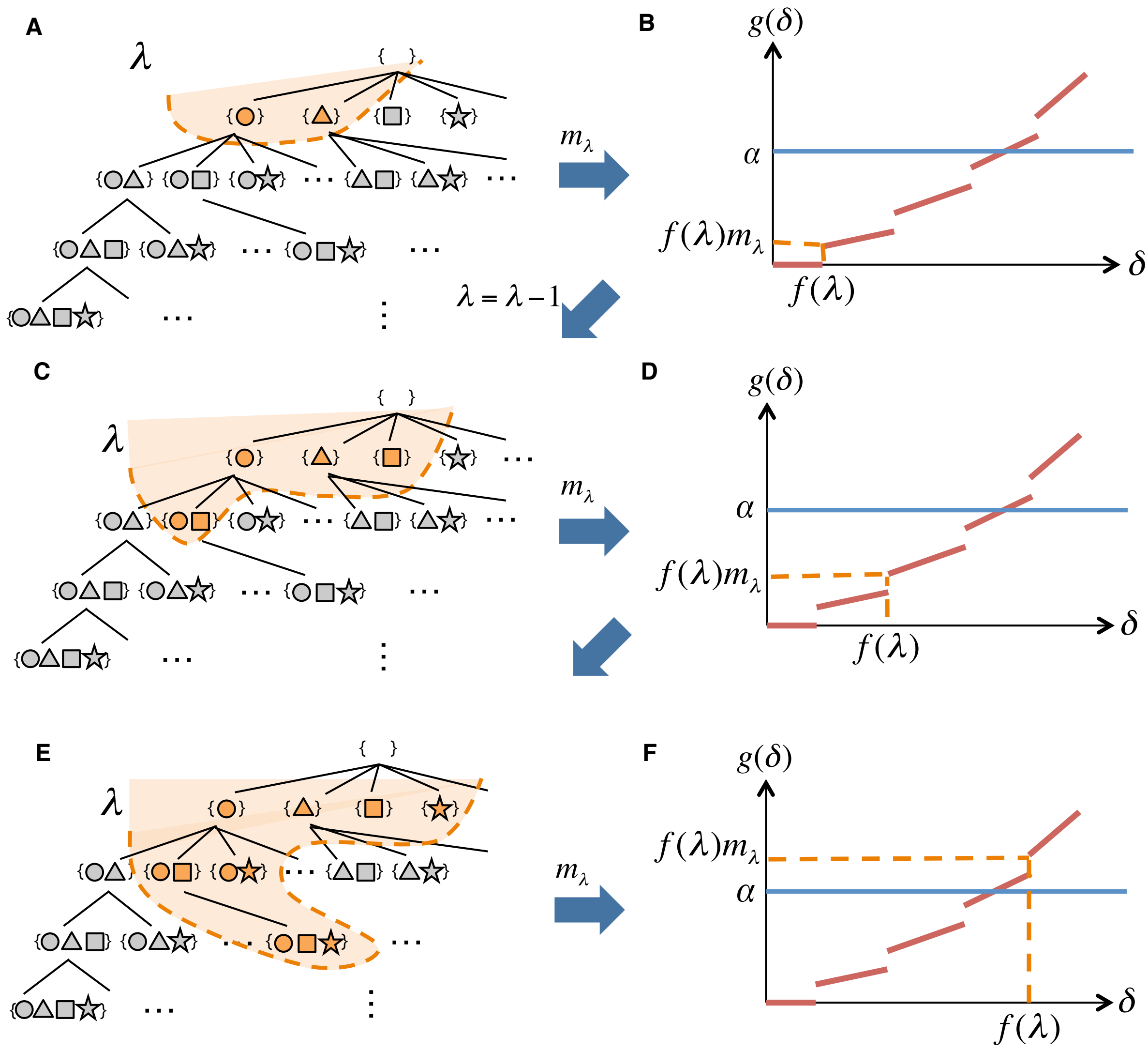


Illustration of the algorithm of the LAMP. (a) Starting from the largest λ, the frequent itemset mining algorithm listed up motif combinations that target λ or more genes. The number of the combinations is m_λ. (b) From m_λ and $f(\lambda)$, the FWER bound $f(\lambda)m_\lambda$ can be calculated. Because the FWER bound is smaller than α in this figure, m_λ is not sufficiently large to be a corrected significance level. (c) By decreasing λ, m_λ becomes large. The motif combinations that target λ or more genes were listed up using a frequent itemset mining algorithm. m_λ is computed from the result. (d) If $f(\lambda)m_\lambda$ is still smaller than α, we change λ for a smaller value and repeat the process. (e)(f) $f(\lambda)m_\lambda$ exceeds α, which indicates that $f(\lambda)$ is too large to control a FWER less than α. From the results, $f(\lambda+1)$ is the largest value, and $m_{\lambda+1}$ is the optimal Bonferroni factor.

Supporting Table

Supporting Table S1.

List of significant motif combinations.

These tables include the statistically significant motif combinations detected by LAMP and the Bonferroni correction. Both results have the possibility to contain significant combinations that do not have higher-arity effect since motif combinations including a very significant motif may become significant even if there is no synergetic effect. To select the significant combinations caused by higher-arity effect, the combinations whose subsets had smaller p-value than the original one were removed.

Supporting Table S1A. The significant motif combinations in yeast. The yeast gene expression data consist of 173 different stress environments. We computed the combinatorial regulations for each environment. In total 173 experiments were performed. The gene expressions are classified into two groups with three different thresholds: 0.5, 1.0, 1.5 and 2.0. The number of motifs is 102.

Supporting Table S1B. The significant motif combinations in EGF-induced cells. This table contains the signicant motif combinations from human breast cancer cells that were induced by EGF. The gene expression profiles were obtained from cells treated with four different doses (0.1, 0.5, 1 and 10 nM) of EGF for seven different time points (5, 10, 15, 30, 45, 60 (except 10 nM) and 90 min). The dataset contains 27 samples. We computed the combinatorial regulations for each sample. A gene was considered up-regulated if its log-fold change expressions, as compared to the control condition, was higher than 0.5, 1.0, 1.5 or 2.0. The number of motifs is 397.

Supporting Table S1C. The significant motif combinations in HRG-induced cells. This table includes all of the statistically signicant motif combinations that were induced by HRG. The gene expression profiles were obtained from cells treated with four different doses (0.1, 0.5, 1 and 10 nM) of HRG for seven different time points (5, 10, 15, 30, 45, 60 and 90 min). Thus, this dataset contains 28 samples. We computed the combinatorial regulations for each sample. A gene was considered up-regulated if its log-fold change expressions, as compared to the control condition, was higher than 0.5, 1.0, 1.5 or 2.0. The number of motifs is 397.

The columns in these tables are:

- Sample: Sample name.
- Motif Combination: Significant motif combinations. “-” indicates that no significant result can be found from the sample.
- Arity: Arity of the motif combination
- # of target genes: The number of genes targeted by the motif combination.

- For each threshold:
    - LAMP (m'): The optimized Bonferroni factor used in the LAMP
    - Adjusted p-value: The adjusted p-value used by the LAMP. The red numbers indicate that these are significant (adjusted p-value < 0.05). "-" indicates that the combination cannot be found by this condition. The LAMP does not need to limit the maximum arity.
    - Bonferroni ($\leq S$): p-value adjusted by the Bonferroni correction. The arity limit was varied from 2 to 5. "-" indicates that the combination cannot be found by this condition. For example, if the p-value of a 3-motif combination cannot be found when the arity limit is 2, then the cell is "-".

Supporting Table S1

A. Yeast

Environment	Motif Combination	Arity	# of target genes	Adjusted *p*-value (exp > 0.5)						Adjusted p-value (exp > 1.0)						Adjusted p-value (exp > 1.5)						Adjusted p-value (exp > 2.0)					
				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni			
				m'		Arity limit 2 m=5253	3 176953	4 4426528	5 87718198	m'		Arity limit 2 m=5253	3 176953	4 4426528	5 87718198	m'		Arity limit 2 m=5253	3 176953	4 4426528	5 87718198	m'		Arity limit 2 m=5253	3 176953	4 4426528	5 87718198
Heat Shock 05 minutes hs-1	*HSF1*	1	67	221	2.17E-23	5.16E-22	1.74E-20	4.35E-19	8.61E-18	283	1.67E-28	3.11E-27	1.05E-25	2.62E-24	5.19E-23	383	1.67E-25	2.29E-24	7.72E-23	1.93E-21	3.83E-20	383	5.53E-25	7.59E-24	2.56E-22	6.39E-21	1.27E-19
	MSN2	1	20		2.48E-05	0.00059	0.0199	0.497	> 1		0.0326	0.605	> 1	> 1	> 1		-	-	-	-	-		0.0172	0.236	> 1	> 1	> 1
	MSN4	1	23		2.63E-05	0.000624	0.021	0.526	> 1		0.00114	0.0212	0.714	> 1	> 1		0.000269	0.00369	0.124	> 1	> 1		4.23E-06	5.80E-05	0.00195	0.0489	0.968
	CIN5	1	46		0.00215	0.0511	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PHD1, GCN4	2	5		0.00897	0.213	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	65		0.0122	0.289	> 1	> 1	> 1		0.00159	0.0295	0.993	> 1	> 1		0.000884	0.0121	0.408	> 1	> 1		0.00262	0.0359	> 1	> 1	> 1
	NRG1	1	48		0.0171	0.406	> 1	> 1	> 1		0.00101	0.0187	0.629	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	PHD1	1	31		-	-	-	-	-		0.000296	0.00549	0.185	> 1	> 1		0.0321	0.44	> 1	> 1	> 1		-	-	-	-	-
	SOK2	1	35		-	-	-	-	-		0.00827	0.154	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	17		-	-	-	-	-		0.0096	0.178	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	9		-	-	-	-	-		0.024	0.445	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
Heat Shock 10 minutes hs-1	*HSF1*	1	65	222	2.14E-17	5.05E-16	1.70E-14	4.26E-13	8.44E-12	283	1.81E-18	3.36E-17	1.13E-15	2.83E-14	5.61E-13	283	5.30E-21	9.83E-20	3.31E-18	8.28E-17	1.64E-15	378	4.85E-20	6.74E-19	2.27E-17	5.68E-16	1.13E-14
	MSN2	1	20		5.80E-07	1.37E-05	0.000462	0.0116	0.229		3.14E-06	5.83E-05	0.00196	0.0491	0.973		9.46E-06	0.000176	0.00592	0.148	> 1		0.0215	0.299	> 1	> 1	> 1
	MSN4	1	23		0.00016	0.00378	0.127	> 1	> 1		2.64E-05	0.00049	0.0165	0.413	> 1		5.03E-05	0.000933	0.0314	0.786	> 1		1.98E-05	0.000276	0.00929	0.232	> 1
	HAP4	1	25		0.000741	0.0175	0.591	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AFT2	1	50		0.00392	0.0928	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NRG1	1	47		0.0169	0.399	> 1	> 1	> 1		0.00788	0.146	> 1	> 1	> 1		0.0129	0.239	> 1	> 1	> 1		-	-	-	-	-
Heat Shock 15 minutes hs-1	*HSF1*	1	61	183	1.07E-10	3.08E-09	1.04E-07	2.60E-06	5.14E-05	221	7.73E-16	1.84E-14	6.19E-13	1.55E-11	3.07E-10	290	6.33E-10	1.15E-08	3.86E-07	9.66E-06	0.000191	379	1.14E-10	1.58E-09	5.33E-08	1.33E-06	2.64E-05
	MSN4	1	22		0.000627	0.018	0.606	> 1	> 1		2.70E-05	0.000642	0.0216	0.541	> 1		9.23E-05	0.00167	0.0563	> 1	> 1		1.84E-06	2.56E-05	0.000861	0.0215	0.427
	MSN2	1	20		0.000687	0.0197	0.664	> 1	> 1		2.76E-07	6.55E-06	0.000221	0.00552	0.109		8.85E-08	1.60E-06	5.40E-05	0.00135	0.0268		4.85E-07	6.72E-06	0.000227	0.00567	0.112
	HAP4	1	27		0.00108	0.031	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AFT2	1	54		0.0116	0.334	> 1	> 1	> 1		0.00495	0.118	> 1	> 1	> 1		0.0053	0.096	> 1	> 1	> 1		-	-	-	-	-
	RPN4	1	57		0.0374	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		-	-	-	-	-		0.00115	0.0208	0.702	> 1	> 1		-	-	-	-	-
	UME6	1	82		-	-	-	-	-		-	-	-	-	-		0.0255	0.461	> 1	> 1	> 1		-	-	-	-	-
Heat Shock 20 minutes hs-1	*HSF1*	1	65	176	1.24E-10	3.69E-09	1.24E-07	3.11E-06	6.16E-05	209	3.45E-12	8.68E-11	2.92E-09	7.31E-08	1.45E-06	276	1.37E-07	2.60E-06	8.76E-05	0.00219	0.0434	370	5.12E-09	7.27E-08	2.45E-06	6.13E-05	0.00121
	MSN2	1	19		0.00129	0.0384	> 1	> 1	> 1		3.92E-07	9.86E-06	0.000332	0.00831	0.165		6.31E-05	0.0012	0.0404	> 1	> 1		1.67E-06	2.37E-05	0.000799	0.02	0.396
	AFT2	1	50		0.0112	0.334	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RPN4	1	62		0.0142	0.424	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	UME6	1	71		0.0152	0.453	> 1	> 1	> 1		0.0306	0.769	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	22		0.0167	0.497	> 1	> 1	> 1		0.000737	0.0185	0.624	> 1	> 1		0.00036	0.00685	0.231	> 1	> 1		0.000159	0.00225	0.0759	> 1	> 1
	NRG1	1	47		0.0332	0.991	> 1	> 1	> 1		0.0309	0.777	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	RLM1	1	7		-	-	-	-	-		0.00579	0.145	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		0.0315	0.792	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKO1	1	6		-	-	-	-	-		0.0389	0.979	> 1	> 1	> 1		-	-	-	-	-		0.0298	0.423	> 1	> 1	> 1
Heat Shock 30 minutes hs-1	*HSF1*	1	65	180	1.89E-08	5.52E-07	1.86E-05	0.000465	0.00922	278	3.09E-09	5.83E-08	1.96E-06	4.91E-05	0.000974	278	5.63E-08	1.06E-06	3.58E-05	0.000896	0.0178	372	1.40E-06	1.97E-05	0.000665	0.0166	0.33
	MSN2	1	18		0.00041	0.012	0.403	> 1	> 1		1.69E-06	3.19E-05	0.00108	0.0269	0.534		0.000313	0.00592	0.199	> 1	> 1		0.000228	0.00322	0.109	> 1	> 1
	UME6	1	72		0.0024	0.0699	> 1	> 1	> 1		0.000159	0.00301	0.102	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	RPN4	1	61		0.00284	0.0829	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	22		0.0158	0.46	> 1	> 1	> 1		0.00477	0.0901	> 1	> 1	> 1		0.000237	0.00447	0.151	> 1	> 1		0.00141	0.02	0.673	> 1	> 1
	NRG1	1	48		0.0455	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SNT2	1	17		-	-	-	-	-		0.0162	0.305	> 1	> 1	> 1		0.0247	0.466	> 1	> 1	> 1		-	-	-	-	-
	AFT2	1	50		-	-	-	-	-		-	-	-	-	-		0.0386	0.729	> 1	> 1	> 1		0.0314	0.444	> 1	> 1	> 1
	UME6, RAP1	2	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0246	0.347	> 1	> 1	> 1
	SKO1	1	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0246	0.347	> 1	> 1	> 1
Heat Shock 40 minutes hs-1	*HSF1*	1	60	202	1.14E-10	2.97E-09	1.00E-07	2.50E-06	4.96E-05	261	2.62E-09	5.27E-08	1.78E-06	4.44E-05	0.000881	353	4.04E-10	6.02E-09	2.03E-07	5.07E-06	0.0001	353	5.76E-06	8.56E-05	0.00289	0.0722	> 1
	MSN2	1	19		3.96E-05	0.00103	0.0346	0.867	> 1		3.79E-06	7.63E-05	0.00257	0.0643	> 1		2.94E-07	4.38E-06	0.000147	0.00369	0.0731		0.00153	0.0227	0.766	> 1	> 1
	MSN4	1	21		0.00223	0.058	> 1	> 1	> 1		1.54E-05	0.000311	0.0105	0.262	> 1		0.00487	0.0724	> 1	> 1	> 1		-	-	-	-	-
	UME6	1	66		0.00271	0.0704	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RLM1	1	7		-	-	-	-	-		0.0107	0.215	> 1	> 1	> 1		0.0326	0.485	> 1	> 1	> 1		-	-	-	-	-
	MOT3	1	8		-	-	-	-	-		0.0268	0.539	> 1	> 1	> 1		-	-	-	-	-		0.0083	0.124	> 1	> 1	> 1
	BAS1	1	22		-	-	-	-	-		0.0285	0.574	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKO1	1	6		-	-	-	-	-		-	-	-	-	-		0.0145	0.215	> 1	> 1	> 1		-	-	-	-	-
Heat Shock 60 minutes hs-1	*HSF1*	1	63	292	1.56E-14	2.81E-13	9.45E-12	2.36E-10	4.69E-09	386	5.51E-17	7.50E-16	2.53E-14	6.32E-13	1.25E-11	386	9.27E-16	1.26E-14	4.25E-13	1.06E-11	2.11E-10	533	2.95E-10	2.91E-09	9.80E-08	2.45E-06	4.86E-05
	MSN4	1	22		0.000468	0.00842	0.284	> 1	> 1		0.0025	0.0341	> 1	> 1	> 1		0.000141	0.00192	0.0647	> 1	> 1		-	-	-	-	-
	MSN2	1	19		0.000587	0.0106	0.356	> 1	> 1		-	-	-	-	-		0.00174	0.0236	0.797	> 1	> 1		-	-	-	-	-
	BAS1	1	22		0.000468	0.00842	0.284	> 1	> 1		0.0025	0.0341	> 1	> 1	> 1		0.000141	0.00192	0.0647	> 1	> 1		-	-	-	-	-
Heat Shock 80 minutes	*HSF1*	1	58	201	2.04E-10	5.33E-09	1.79E-07	4.49E-06	8.90E-05	340	2.40E-15	3.71E-14	1.25E-12	3.13E-11	6.20E-10	340	7.60E-14	1.17E-12	3.95E-11	9.89E-10	1.96E-08	468	2.58E-09	2.89E-08	9.74E-07	2.44E-05	0.000483
	MSN4	1	22		0.00578	0.151	> 1	> 1	> 1		0.0301	0.465	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
Heat Shock 000 minutes	*FHL1*	1	86	239	3.84E-26	8.44E-25	2.84E-23	7.11E-22	1.41E-20	405	1.04E-14	1.35E-13	4.54E-12	1.14E-10	2.25E-09	556	-	-	-	-	-	703	-	-	-	-	-
	SFP1	1	20		3.27E-05	0.000718	0.0242	0.605	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Heat Shock 000 minutes	*FHL1*	1	88	195	2.36E-26	6.36E-25	2.14E-23	5.36E-22	1.06E-20	306	1.25E-40	2.14E-39	7.21E-38	1.80E-36	3.58E-35	554	-	-	-	-	-	554	-	-	-	-	-
	SFP1	1	20		6.95E-05	0.00187	0.0631	> 1	> 1		4.03E-09	6.91E-08	2.33E-06	5.82E-05	0.00115		-	-	-	-	-		-	-	-	-	-
Heat Shock 000 minutes	*FHL1*	1	88	233	5.84E-25	1.32E-23	4.43E-22	1.11E-20	2.20E-19	397	4.06E-41	5.38E-40	1.81E-38	4.53E-37	8.98E-36	548	-	-	-	-	-	695	-	-	-	-	-
	SFP1	1	20		0.00106	0.024	0.809	> 1	> 1		1.11E-08	1.47E-07	4.96E-06	0.000124	0.00246		-	-	-	-	-		-	-	-	-	-
Heat Shock 005 minutes hs-2	-	-	-	239	-	-	-	-	-	405	-	-	-	-	-	556	-	-	-	-	-	703	-	-	-	-	
Heat Shock 015 minutes hs-2	*HSF1*	1	70	196	8.89E-20	2.38E-18	8.02E-17	2.01E-15	3.98E-14	304	3.43E-17	5.94E-16	2.00E-14	5.00E-13	9.91E-12	405	6.25E-10	8.10E-09	2.73E-07	6.83E-06	0.000135	555	-	-	-	-	-
	MSN2	1	21		5.74E-08	1.54E-06	5.18E-05	0.0013	0.0257		1.20E-06	2.07E-05	0.000697	0.0174	0.346		0.00534	0.0692	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	24		0.00187	0.0501	> 1	> 1	> 1		0.00111	0.0192	0.646	> 1	> 1		0.0107	0.139	> 1	> 1	> 1		-	-	-	-	-
	HAP4	1	27		0.0132	0.354	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Heat Shock 030inutes hs-2	*MSN4*	1	25	239	0.00861	0.189	> 1	> 1	> 1	405	-	-	-	-	-	556	-	-	-	-	-	556	-	-	-	-	-
Heat Shock 060 minutes hs-2	*MBP1*	1	112	306	1.20E-06	2.06E-05	0.000695	0.0174	0.345	405	-	-	-	-	-	556	-	-	-	-	-	556	-	-	-	-	-
	BAS1	1	24		1.05E-05	0.00018	0.00607	0.152	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SWI6	1	90		2.78E-05	0.000478	0.0161	0.402	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET4	1	7		0.0383	0.658	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
37C to 25C shock - 15 min	*FHL1*	1	87	238	4.67E-09	1.03E-07	3.47E-06	8.69E-05	0.00172	400	-	-	-	-	-	400	-	-	-	-	-	549	-	-	-	-	-
	GCN4	1	127		1.53E-05	0.000339	0.0114	0.285	> 1		0.000101	0.00133	0.0449	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	BAS1	1	24		-	-	-	-	-		0.0499	0.655	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
37C to 25C shock - 30 min	*FHL1*	1	88	240	5.39E-25	1.18E-23	3.97E-22	9.94E-21	1.97E-19	306	2.04E-15	3.50E-14	1.18E-12	2.95E-11	5.84E-10	405	-	-	-	-	-	556	-	-	-	-	-
	SFP1	1	20		9.75E-06	0.000213	0.00719	0.18	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GCN4	1	128		0.0036	0.0788	> 1	> 1	> 1		0.000403	0.00692	0.233	> 1	> 1		-	-	-	-	-		-	-	-	-	-

37C to 25C shock - 45 min	*FHL1*	1	88	239	3.43E-18	7.54E-17	2.54E-15	6.35E-14	1.26E-12	404	-	-	-	-	-	404	-	-	-	-	-	554	-	-	-	-	-
37C to 25C shock - 60 min	*FHL1*	1	88	195	2.33E-24	6.28E-23	2.12E-21	5.30E-20	1.05E-18	305	2.30E-40	3.95E-39	1.33E-37	3.33E-36	6.60E-35	405	2.27E-30	2.95E-29	9.93E-28	2.48E-26	4.92E-25	555	-	-	-	-	-
	SFP1	1	20		2.84E-06	7.64E-05	0.00257	0.0644	> 1		5.19E-11	8.94E-10	3.01E-08	7.53E-07	1.49E-05		-	-	-	-	-		-	-	-	-	-
	RAP1	1	79		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00504	0.0477	> 1	> 1	> 1
37C to 25C shock - 90 min	*FHL1*	1	88	240	9.58E-26	2.10E-24	7.06E-23	1.77E-21	3.50E-20	405	1.39E-49	1.80E-48	6.07E-47	1.52E-45	3.01E-44	556	0.00586	0.0553	> 1	> 1	> 1	556	-	-	-	-	-
	SFP1	1	20		1.02E-06	2.23E-05	0.000751	0.0188	0.372		6.10E-12	7.91E-11	2.66E-09	6.66E-08	1.32E-06		-	-	-	-	-		-	-	-	-	-
	RAP1	1	79		-	-	-	-	-		-	-	-	-	-		0.00284	0.0269	0.905	> 1	> 1		-	-	-	-	-
heat shock 17 to 37, 20 minutes	*HSF1*	1	68	170	8.03E-09	2.48E-07	8.35E-06	0.000209	0.00414	238	1.38E-14	3.04E-13	1.02E-11	2.56E-10	5.07E-09	306	1.51E-11	2.59E-10	8.72E-09	2.18E-07	4.32E-06	306	1.59E-08	2.73E-07	9.19E-06	0.00023	0.00455
	MSN2	1	21		0.000813	0.0251	0.846	> 1	> 1		9.96E-08	2.20E-06	7.41E-05	0.00185	0.0367		1.04E-08	1.78E-07	5.99E-06	0.00015	0.00297		1.66E-07	2.85E-06	9.58E-05	0.0024	0.0475
	HAP4	1	27		0.00723	0.223	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	23		0.0371	> 1	> 1	> 1	> 1		0.00106	0.0234	0.789	> 1	> 1		0.000161	0.00276	0.0931	> 1	> 1		0.00154	0.0264	0.89	> 1	> 1
	AFT2	1	58		-	-	-	-	-		0.0148	0.327	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NRG1	1	56		-	-	-	-	-		0.0251	0.555	> 1	> 1	> 1		0.00171	0.0294	0.99	> 1	> 1		-	-	-	-	-
	UME6	1	92		-	-	-	-	-		0.0339	0.748	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0191	0.328	> 1	> 1	> 1
heat shock 21 to 37, 20 minutes	*HSF1*	1	70	170	1.23E-13	3.80E-12	1.28E-10	3.20E-09	6.34E-08	239	4.78E-19	1.05E-17	3.54E-16	8.84E-15	1.75E-13	304	1.62E-22	2.81E-21	9.46E-20	2.37E-18	4.69E-17	401	2.43E-17	3.18E-16	1.07E-14	2.68E-13	5.31E-12
	MSN2	1	21		8.98E-06	0.000277	0.00934	0.234	> 1		1.22E-08	2.69E-07	9.05E-06	0.000226	0.00449		1.26E-11	2.17E-10	7.31E-09	1.83E-07	3.62E-06		4.70E-07	6.16E-06	0.000208	0.00519	0.103
	HAP4	1	27		0.000907	0.028	0.944	> 1	> 1		0.0162	0.356	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		0.000966	0.0299	> 1	> 1	> 1		0.000113	0.00248	0.0836	> 1	> 1		0.000443	0.00765	0.258	> 1	> 1		-	-	-	-	-
	NRG1	1	56		-	-	-	-	-		0.0388	0.852	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		-	-	-	-	-		0.0117	0.202	> 1	> 1	> 1		0.0067	0.0878	> 1	> 1	> 1
	SKO1	1	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0372	0.488	> 1	> 1	> 1
heat shock 25 to 37, 20 minutes	*HSF1*	1	69	167	7.76E-11	2.44E-09	8.22E-08	2.06E-06	4.08E-05	234	3.80E-18	8.52E-17	2.87E-15	7.18E-14	1.42E-12	303	4.41E-24	7.64E-23	2.57E-21	6.44E-20	1.28E-18	403	3.47E-17	4.52E-16	1.52E-14	3.81E-13	7.55E-12
	MSN2	1	21		3.47E-05	0.00109	0.0368	0.921	> 1		2.85E-07	6.39E-06	0.000215	0.00539	0.107		3.73E-11	6.46E-10	2.18E-08	5.45E-07	1.08E-05		2.88E-08	3.76E-07	1.27E-05	0.000317	0.00628
	RPN4	1	64		0.00066	0.0208	0.699	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		0.008	0.252	> 1	> 1	> 1		0.000521	0.0117	0.394	> 1	> 1		0.000532	0.00923	0.311	> 1	> 1		5.85E-05	0.000763	0.0257	0.643	> 1
	AFT2	1	57		-	-	-	-	-		0.00567	0.127	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		0.0277	0.621	> 1	> 1	> 1		0.0192	0.333	> 1	> 1	> 1		0.00818	0.107	> 1	> 1	> 1
	SKO1	1	6		-	-	-	-	-		-	-	-	-	-		0.00839	0.145	> 1	> 1	> 1		0.000911	0.0119	0.4	> 1	> 1
	PHD1, SUT1, SOK2, SKN7	4	7		-	-	-	-	-		-	-	-	-	-		0.0272	-	-	> 1	> 1		-	-	-	-	-
heat shock 29 to 37, 20 minutes	*HSF1*	1	69	192	1.69E-12	4.62E-11	1.56E-09	3.89E-08	7.71E-07	303	5.01E-18	8.69E-17	2.93E-15	7.33E-14	1.45E-12	303	3.26E-17	5.66E-16	1.91E-14	4.77E-13	9.45E-12	401	2.94E-14	3.85E-13	1.30E-11	3.24E-10	6.43E-09
	MSN2	1	21		1.78E-06	4.87E-05	0.00164	0.041	0.812		7.63E-08	1.32E-06	4.46E-05	0.00112	0.0221		7.01E-08	1.21E-06	4.09E-05	0.00102	0.0203		0.00235	0.0307	> 1	> 1	> 1
	RPN4	1	63		2.75E-06	7.54E-05	0.00254	0.0635	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		0.00417	0.114	> 1	> 1	> 1		0.000152	0.00264	0.0889	> 1	> 1		8.53E-06	0.000148	0.00498	0.125	> 1		0.00049	0.00642	0.216	> 1	> 1
	AFT2	1	57		0.00491	0.134	> 1	> 1	> 1		0.00395	0.0686	> 1	> 1	> 1		0.0249	0.432	> 1	> 1	> 1		-	-	-	-	-
	HAP4	1	27		0.0333	0.911	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NRG1	1	57		0.00491	0.134	> 1	> 1	> 1		0.00395	0.0686	> 1	> 1	> 1		0.0249	0.432	> 1	> 1	> 1		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		0.0215	0.374	> 1	> 1	> 1		0.000968	0.0168	0.565	> 1	> 1		0.000705	0.00924	0.311	> 1	> 1
	MOT3	1	12		-	-	-	-	-		0.0411	0.712	> 1	> 1	> 1		0.00776	0.134	> 1	> 1	> 1		0.0159	0.208	> 1	> 1	> 1
	PHO2	1	5		-	-	-	-	-		-	-	-	-	-		0.0164	0.283	> 1	> 1	> 1		-	-	-	-	-
	SKO1	1	6		-	-	-	-	-		-	-	-	-	-		0.0468	0.811	> 1	> 1	> 1		0.00977	0.128	> 1	> 1	> 1
heat shock 33 to 37, 20 minutes	*HSF1*	1	69	193	1.09E-13	2.96E-12	9.96E-11	2.49E-09	4.94E-08	304	2.37E-11	4.09E-10	1.38E-08	3.45E-07	6.83E-06	402	1.34E-08	1.75E-07	5.89E-06	0.000147	0.00292	402	8.26E-08	1.08E-06	3.63E-05	0.000909	0.018
	MSN2	1	21		2.37E-05	0.000645	0.0217	0.543	> 1		0.000221	0.00383	0.129	> 1	> 1		0.00108	0.0141	0.476	> 1	> 1		0.0121	0.158	> 1	> 1	> 1
	RPN4	1	64		0.00026	0.00709	0.239	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP4	1	27		0.000683	0.0186	0.627	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		0.000981	0.0267	0.899	> 1	> 1		0.0128	0.221	> 1	> 1	> 1		0.004	0.0523	> 1	> 1	> 1		0.0298	0.389	> 1	> 1	> 1
	MOT3	1	12		-	-	-	-	-		0.0299	0.516	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	PHO2	1	5		-	-	-	-	-		0.0419	0.724	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
29C to 33C - 5	*HSF1*	1	68	190	5.90E-15	1.63E-13	5.50E-12	1.38E-10	2.73E-09	303	5.69E-11	9.86E-10	3.32E-08	8.31E-07	1.65E-05	394	9.67E-10	1.29E-08	4.34E-07	1.09E-05	0.000215	394	2.02E-05	0.00027	0.00909	0.227	> 1
	MSN2	1	21		5.03E-05	0.00139	0.0469	> 1	> 1		3.16E-05	0.000548	0.0185	0.462	> 1		0.0012	0.016	0.54	> 1	> 1		0.000499	0.00666	0.224	> 1	> 1
	MSN4	1	21		5.03E-05	0.00139	0.0469	> 1	> 1		3.16E-05	0.000548	0.0185	0.462	> 1		0.0012	0.016	0.54	> 1	> 1		0.000499	0.00666	0.224	> 1	> 1
29C to 33C - 15 minutes	*HSF1*	1	69	237	4.73E-10	1.05E-08	3.53E-07	8.84E-06	0.000175	402	6.51E-08	8.50E-07	2.86E-05	0.000717	0.0142	402	6.12E-08	8.00E-07	2.70E-05	0.000674	0.0134	402	4.15E-05	0.000542	0.0183	0.457	> 1
	MSN2	1	21		2.32E-05	0.000513	0.0173	0.433	> 1		3.81E-06	4.98E-05	0.00168	0.042	0.832		7.23E-05	0.000944	0.0318	0.796	> 1		4.71E-05	0.000615	0.0207	0.519	> 1
	MSN4	1	24		0.0019	0.0422	> 1	> 1	> 1		0.000265	0.00346	0.117	> 1	> 1		0.00375	0.049	> 1	> 1	> 1		0.00317	0.0414	> 1	> 1	> 1
	AFT2, GCN4	2	3		-	-	-	-	-		0.0406	0.531	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
29C to 33C - 30 minutes	*HSF1*	1	70	237	0.0169	0.374	> 1	> 1	> 1	398	-	-	-	-	-	398	-	-	-	-	-	398	-	-	-	-	-
33C vs. 30C - 90 minutes	-	-	-	306	-	-	-	-	-	554	-	-	-	-	-	554	-	-	-	-	-	554	-	-	-	-	
29C +1M sorbitol to 33C + 1M sorbitol - 5 minutes	*HSF1*	1	70	240	4.88E-15	1.07E-13	3.60E-12	9.00E-11	1.78E-09	405	1.26E-13	1.63E-12	5.49E-11	1.37E-09	2.72E-08	405	1.92E-12	2.49E-11	8.40E-10	2.10E-08	4.17E-07	556	7.51E-05	0.00071	0.0239	0.598	> 1
	MSN4	1	25		1.11E-05	0.000242	0.00815	0.204	> 1		1.37E-06	1.77E-05	0.000596	0.0149	0.296		0.000725	0.00941	0.317	> 1	> 1		3.11E-05	0.000293	0.00988	0.247	> 1
	MSN2	1	21		0.000534	0.0117	0.394	> 1	> 1		8.56E-05	0.00111	0.0374	0.936	> 1		0.00583	0.0756	> 1	> 1	> 1		0.0162	0.153	> 1	> 1	> 1
	SKN7	1	73		0.0023	0.0503	> 1	> 1	> 1		0.0118	0.153	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		0.0178	0.23	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
29C +1M sorbitol to 33C + 1M sorbitol - 15 minutes	*RPN4*	1	64	237	6.47E-07	1.43E-05	0.000483	0.0121	0.239	402	-	-	-	-	-	402	-	-	-	-	-	402	-	-	-	-	-
	HSF1	1	70		9.40E-06	0.000208	0.00702	0.176	> 1		9.50E-08	1.24E-06	4.18E-05	0.00105	0.0207		1.56E-07	2.03E-06	6.85E-05	0.00171	0.0339		4.38E-06	5.73E-05	0.00193	0.0483	0.956
	MSN4	1	25		0.00026	0.00577	0.194	> 1	> 1		7.04E-06	9.20E-05	0.0031	0.0775	> 1		0.0066	0.0862	> 1	> 1	> 1		0.000183	0.00239	0.0805	> 1	> 1
	MSN2	1	21		0.000852	0.0189	0.636	> 1	> 1		1.26E-05	0.000164	0.00553	0.138	> 1		0.00218	0.0285	0.96	> 1	> 1		-	-	-	-	-
	PHO2	1	5		0.0292	0.648	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CBF1, PHO2	2	4		-	-	-	-	-		-	-	-	-	-		0.0188	0.246	> 1	> 1	> 1		-	-	-	-	-
29C +1M sorbitol to 33C + 1M	*CBF1*	1	152	305	0.016	0.276	> 1	> 1	> 1	400	-	-	-	-	-	554	-	-	-	-	-	554	-	-	-	-	-
	HSF1	1	70		0.0291	0.501	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CBF1, PHO2	2	4		-	-	-	-	-		0.0121	0.158	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
29C +1M sorbitol to 33C + *NO sorbitol - 5 minutes	*HSF1*	1	70	237	6.46E-15	1.43E-13	4.82E-12	1.21E-10	2.39E-09	401	5.23E-17	6.85E-16	2.31E-14	5.77E-13	1.14E-11	401	3.23E-11	4.23E-10	1.43E-08	3.57E-07	7.07E-06	555	2.53E-06	2.39E-05	0.000806	0.0202	0.4
	MSN4	1	25		0.00179	0.0396	> 1	> 1	> 1		0.000202	0.00265	0.0894	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		0.00224	0.0497	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		0.00844	0.187	> 1	> 1	> 1		3.39E-05	0.000445	0.015	0.375	> 1		0.0134	0.176	> 1	> 1	> 1		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		-	-	-	-	-		0.0291	0.382	> 1	> 1	> 1		-	-	-	-	-
29C +1M sorbitol to 33C + *NO sorbitol - 15 minutes	*RPN4*	1	64	306	5.03E-15	8.63E-14	2.91E-12	7.27E-11	1.44E-09	405	-	-	-	-	-	555	-	-	-	-	-	555	-	-	-	-	-
	HSF1	1	70		1.29E-11	2.21E-10	7.44E-09	1.86E-07	3.69E-06		5.67E-14	7.36E-13	2.48E-11	6.20E-10	1.23E-08		3.28E-09	3.11E-08	1.05E-06	2.62E-05	0.000519		0.00343	0.0324	> 1	> 1	> 1
	PHO2	1	5		0.00547	0.0939	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CBF1, PHO2	2	4		-	-	-	-	-		0.0368	0.477	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		-	-	-	-	-		0.00461	0.0436	> 1	> 1	> 1		-	-	-	-	-
29C +1M sorbitol to 33C + *NO	*HSF1*	1	70	237	0.000306	0.00677	0.228	> 1	> 1	402	0.00329	0.043	> 1	> 1	> 1	554	-	-	-	-	-	554	-	-	-	-	-
	CBF1, PHO2	2	4		-	-	-	-	-		0.0246	0.322	> 1	> 1	> 1		-	-	-	-	-		0.0118	0.112	> 1	> 1	> 1
	CBF1, PHO4	2	11		-	-	-	-	-		-	-	-	-	-		0.0289	0.274	> 1	> 1	> 1		-	-	-	-	-
constant 0.32 mM H2O2 (10 min) redo	*YAP7*	1	61	239	2.02E-13	4.43E-12	1.49E-10	3.73E-09	7.40E-08	393	9.00E-13	1.20E-11	4.05E-10	1.01E-08	2.01E-07	393	6.79E-10	9.07E-09	3.06E-07	7.65E-06	0.000152	393	-	-	-	-	-
	GCN4	1	123		0.000209	0.0046	0.155	> 1	> 1		9.99E-11	1.34E-09	4.50E-08	1.12E-06	2.23E-05		0.00132	0.0177	0.596	> 1	> 1		-	-	-	-	-
	MSN4, NRG1	2	5		0.0401	0.881	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		0.000101	0.00135	0.0455	> 1	> 1
	YAP1	1	15		-	-	-	-	-		0.0338	0.452	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-

	YAP7, AFT2	2	5		0.0401	0.881	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		0.000101	0.00135	0.0455	> 1	> 1
	MSN2	1	21		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00503	0.0672	> 1	> 1	> 1
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0125	0.167	> 1	> 1	> 1
constant 0.32 mM H2O2 (20 min) redo	*YAP7*	1	60	192	1.83E-09	5.00E-08	1.68E-06	4.21E-05	0.000834	296	2.03E-11	3.61E-10	1.22E-08	3.04E-07	6.03E-06	393	9.96E-11	1.33E-09	4.48E-08	1.12E-06	2.22E-05	393	0.000147	0.00197	0.0662	> 1	> 1
	RPN4	1	63		0.00156	0.0426	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		0.00175	0.0478	> 1	> 1	> 1		1.23E-05	0.000217	0.00732	0.183	> 1		-	-	-	-	-		-	-	-	-	-
	GCN4	1	121		0.0105	0.288	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.0021	0.0373	> 1	> 1	> 1		0.00144	0.0192	0.647	> 1	> 1		0.00764	0.102	> 1	> 1	> 1
	MSN2, MSN4	2	6		-	-	-	-	-		-	-	-	-	-		0.0193	0.258	> 1	> 1	> 1		0.00108	0.0144	0.485	> 1	> 1
constant 0.32 mM H2O2 (30 min) redo	*YAP7*	1	63	193	2.02E-08	5.50E-07	1.85E-05	0.000463	0.00918	294	3.12E-08	5.58E-07	1.88E-05	0.00047	0.00931	392	0.000125	0.00168	0.0565	> 1	> 1	392	0.00521	0.0699	> 1	> 1	> 1
	RPN4	1	62		5.37E-08	1.46E-06	4.93E-05	0.00123	0.0244		0.0323	0.577	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		0.000111	0.00303	0.102	> 1	> 1		4.43E-05	0.000792	0.0267	0.667	> 1		0.000543	0.00727	0.245	> 1	> 1		-	-	-	-	-
	HSF1	1	66		0.000585	0.0159	0.536	> 1	> 1		0.022	0.393	> 1	> 1	> 1		0.0411	0.55	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	25		0.000655	0.0178	0.6	> 1	> 1		0.000532	0.0095	0.32	> 1	> 1		1.41E-05	0.000189	0.00635	0.159	> 1		9.59E-07	1.29E-05	0.000433	0.0108	0.215
	SKN7, NRG1	2	9		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.013	0.175	> 1	> 1	> 1
constant 0.32 mM H2O2 (40 min) rescan	*RPN4*	1	56	176	0.00956	0.285	> 1	> 1	> 1	289	-	-	-	-	-	377	-	-	-	-	-	377	-	-	-	-	-
constant 0.32 mM H2O2 (50 min) redo	*RPN4*	1	64	235	9.28E-07	2.08E-05	0.000699	0.0175	0.347	396	-	-	-	-	-	396	-	-	-	-	-	542	-	-	-	-	-
	MSN4	1	22		1.12E-05	0.00025	0.00841	0.21	> 1		0.0212	0.281	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7	1	63		0.00023	0.00515	0.173	> 1	> 1		0.00292	0.0388	> 1	> 1	> 1		0.0156	0.207	> 1	> 1	> 1		0.0253	0.245	> 1	> 1	> 1
	MSN2	1	21		0.000475	0.0106	0.358	> 1	> 1		5.38E-06	7.14E-05	0.0024	0.0601	> 1		4.88E-05	0.000648	0.0218	0.546	> 1		0.00109	0.0106	0.356	> 1	> 1
	GCN4	1	124		-	-	-	-	-		0.000659	0.00875	0.295	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.0385	0.511	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
constant 0.32 mM H2O2 (60 min) redo	*YAP7*	1	60	293	0.0009	0.0161	0.544	> 1	> 1	395	0.016	0.213	> 1	> 1	> 1	395	-	-	-	-	-	539	-	-	-	-	-
	MSN2	1	21		0.0024	0.0429	> 1	> 1	> 1		6.01E-06	7.99E-05	0.00269	0.0673	> 1		0.000415	0.00552	0.186	> 1	> 1		-	-	-	-	-
	STB5	1	15		0.0373	0.668	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GCN4	1	124		-	-	-	-	-		0.0439	0.584	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	22		-	-	-	-	-		-	-	-	-	-		0.0119	0.158	> 1	> 1	> 1		-	-	-	-	-
constant 0.32 mM H2O2 (80 min) redo	*MSN2*	1	19	295	0.00101	0.018	0.608	> 1	> 1	390	0.0077	0.104	> 1	> 1	> 1	537	-	-	-	-	-	537	-	-	-	-	-
	STB5	1	14		0.00848	0.151	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP7	1	64		-	-	-	-	-		0.0084	0.113	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.0322	0.433	> 1	> 1	> 1		0.0165	0.162	> 1	> 1	> 1		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		-	-	-	-	-		0.00325	0.0318	> 1	> 1	> 1		-	-	-	-	-
constant 0.32 mM H2O2 (100 min) redo	*BAS1*	1	23	292	4.93E-10	8.87E-09	2.99E-07	7.48E-06	0.000148	392	-	-	-	-	-	536	-	-	-	-	-	536	-	-	-	-	-
	MSN4	1	25		0.000125	0.00225	0.0758	> 1	> 1		0.00185	0.0248	0.834	> 1	> 1		-	-	-	-	-		0.0238	0.234	> 1	> 1	> 1
	MSN2	1	21		0.000172	0.0031	0.104	> 1	> 1		2.29E-05	0.000307	0.0103	0.259	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7	1	63		-	-	-	-	-		0.00704	0.0944	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7, YAP1	2	12		-	-	-	-	-		-	-	-	-	-		0.033	0.324	> 1	> 1	> 1		-	-	-	-	-
constant 0.32 mM H2O2 (120 min) redo	*MSN2*	1	19	288	0.0025	0.0456	> 1	> 1	> 1	383	-	-	-	-	-	527	-	-	-	-	-	527	-	-	-	-	-
	MSN4	1	25		0.0031	0.0565	> 1	> 1	> 1		-	-	-	-	-		0.0101	0.101	> 1	> 1	> 1		-	-	-	-	-
	YAP7	1	62		0.0253	0.461	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	16		-	-	-	-	-		0.00119	0.0163	0.548	> 1	> 1		0.00152	0.0152	0.511	> 1	> 1		-	-	-	-	-
	MSN2, MSN4	2	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0481	0.48	> 1	> 1	> 1
constant 0.32 mM H2O2 (160 min) redo	*YAP7*	1	63	294	0.00052	0.00929	0.313	> 1	> 1	391	-	-	-	-	-	535	-	-	-	-	-	535	-	-	-	-	-
	MSN4	1	25		0.00151	0.027	0.91	> 1	> 1		0.0298	0.401	> 1	> 1	> 1		0.000599	0.00588	0.198	> 1	> 1		-	-	-	-	-
	STB5	1	14		0.00726	0.13	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		0.0138	0.247	> 1	> 1	> 1		0.000416	0.00558	0.188	> 1	> 1		-	-	-	-	-		0.0307	0.302	> 1	> 1	> 1
	NRG1	1	51		0.0168	0.3	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		-	-	-	-	-		0.00391	0.0384	> 1	> 1	> 1		-	-	-	-	-
1 mM Menadione (10 min)redo	*FHL1*	1	79	293	2.29E-08	4.11E-07	1.38E-05	0.000346	0.00686	389	-	-	-	-	-	530	-	-	-	-	-	530	-	-	-	-	-
	GCN4	1	121		3.90E-05	0.000699	0.0235	0.589	> 1		0.000319	0.00431	0.145	> 1	> 1		0.0132	0.131	> 1	> 1	> 1		-	-	-	-	-
	YAP7	1	64		0.00125	0.0225	0.757	> 1	> 1		0.0109	0.148	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1 mM Menadione (20 min) redo	*YAP7*	1	63	235	3.23E-06	7.22E-05	0.00243	0.0608	> 1	396	3.03E-10	4.02E-09	1.35E-07	3.39E-06	6.71E-05	540	0.00181	0.0176	0.593	> 1	> 1	540	0.0085	0.0827	> 1	> 1	> 1
	GCN4	1	124		0.000302	0.00675	0.227	> 1	> 1		0.00108	0.0143	0.481	> 1	> 1		-	-	-	-	-		0.0191	0.185	> 1	> 1	> 1
	MSN2	1	19		0.00778	0.174	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.000231	0.00307	0.103	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2, MSN4	2	6		-	-	-	-	-		0.00663	0.088	> 1	> 1	> 1		0.0115	0.111	> 1	> 1	> 1		-	-	-	-	-
1 mM Menadione (30 min) redo	*YAP7*	1	62	232	2.71E-09	6.13E-08	2.06E-06	5.16E-05	0.00102	401	6.46E-07	8.46E-06	0.000285	0.00713	0.141	401	2.43E-07	3.18E-06	0.000107	0.00268	0.0531	550	0.0018	0.0172	0.579	> 1	> 1
	RPN4	1	63		1.66E-05	0.000375	0.0126	0.316	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		0.00841	0.19	> 1	> 1	> 1		0.000329	0.00431	0.145	> 1	> 1		0.0033	0.0432	> 1	> 1	> 1		-	-	-	-	-
	GCN4	1	125		0.0141	0.319	> 1	> 1	> 1		0.015	0.196	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.00152	0.0199	0.67	> 1	> 1		0.00825	0.108	> 1	> 1	> 1		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.014	0.183	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1mM Menadione (40 min) redo	*YAP7*	1	62	235	2.29E-06	5.12E-05	0.00172	0.0431	0.854	395	5.87E-09	7.80E-08	2.63E-06	6.58E-05	0.0013	395	4.77E-06	6.34E-05	0.00214	0.0534	> 1	546	0.0219	0.211	> 1	> 1	> 1
	GCN4	1	122		0.00156	0.0349	> 1	> 1	> 1		0.00242	0.0321	> 1	> 1	> 1		0.0208	0.277	> 1	> 1	> 1		-	-	-	-	-
	RPN4	1	63		0.00375	0.0837	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		-	-	-	-	-		0.00301	0.0401	> 1	> 1	> 1		0.00273	0.0363	> 1	> 1	> 1		-	-	-	-	-
	MSN4, NRG1	2	5		-	-	-	-	-		0.00485	0.0645	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.0132	0.176	> 1	> 1	> 1		0.00113	0.015	0.504	> 1	> 1		-	-	-	-	-
1 mM Menadione (50 min)redo	*GCN4*	1	122	233	4.02E-07	9.07E-06	0.000306	0.00764	0.151	395	2.45E-06	3.26E-05	0.0011	0.0275	0.544	542	-	-	-	-	-	542	-	-	-	-	-
	YAP7	1	62		4.54E-06	0.000102	0.00345	0.0862	> 1		4.09E-10	5.44E-09	1.83E-07	4.58E-06	9.08E-05		-	-	-	-	-		-	-	-	-	-
	PHO4	1	24		0.000208	0.00468	0.158	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RPN4	1	64		0.000804	0.0181	0.611	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.0174	0.231	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	GLN3, GCN4	2	7		-	-	-	-	-		-	-	-	-	-		0.0122	0.119	> 1	> 1	> 1		-	-	-	-	-
1 mM Menadione (80 min) redo	*GCN4*	1	123	232	6.96E-05	0.00158	0.0531	> 1	> 1	397	0.00408	0.054	> 1	> 1	> 1	397	0.0274	0.362	> 1	> 1	> 1	541	-	-	-	-	-
	YAP7	1	62		7.16E-05	0.00162	0.0546	> 1	> 1		5.94E-06	7.86E-05	0.00265	0.0663	> 1		-	-	-	-	-		-	-	-	-	-
	BAS1	1	22		0.00472	0.107	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
1 mM Menadione (105 min) redo	*YAP7*	1	62	235	0.000943	0.0211	0.71	> 1	> 1	394	0.000225	0.003	0.101	> 1	> 1	539	-	-	-	-	-	539	-	-	-	-	-
	BAS1	1	23		0.00111	0.0249	0.838	> 1	> 1		1.34E-06	1.78E-05	0.000601	0.015	0.298		5.66E-05	0.000552	0.0186	0.465	> 1		1.88E-06	1.83E-05	0.000616	0.0154	0.305
	MSN2	1	21		0.0159	0.355	> 1	> 1	> 1		-	-	-	-	-		0.0339	0.33	> 1	> 1	> 1		-	-	-	-	-
	YAP1	1	16		-	-	-	-	-		0.0177	0.235	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	GCN4	1	124		-	-	-	-	-		0.0428	0.57	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1 mM Menadione (120 min)redo	*BAS1*	1	24	229	0.000238	0.00546	0.184	> 1	> 1	387	1.20E-09	1.63E-08	5.50E-07	1.38E-05	0.000273	387	2.97E-09	4.03E-08	1.36E-06	3.40E-05	0.000673	529	8.51E-08	8.45E-07	2.85E-05	0.000712	0.0141
	MSN2	1	19		0.0191	0.437	> 1	> 1	> 1		0.000258	0.00351	0.118	> 1	> 1		3.75E-05	0.000509	0.0172	0.429	> 1		-	-	-	-	-
	MSN4	1	23		0.0348	0.799	> 1	> 1	> 1		0.0161	0.218	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	GCN4	1	122		-	-	-	-	-		0.00887	0.12	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7, YAP1	2	11		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0273	0.271	> 1	> 1	> 1
1 mM Menadione (160 min)	*MBP1*	1	107	232	0.00106	0.024	0.808	> 1	> 1	391	-	-	-	-	-	537	-	-	-	-	-	537	-	-	-	-	-
	HAP4	1	26		0.0275	0.623	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	BAS1	1	23		-	-	-	-	-		7.93E-05	0.00107	0.0359	0.898	> 1		0.0153	0.15	> 1	> 1	> 1		-	-	-	-	-

redo	*MSN2*	1	20		-	-	-	-	-		0.0076	0.102	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
2.5mM DTT 005 min dtt-1	*FHL1*	1	81	268	1.96E-12	3.84E-11	1.29E-09	3.24E-08	6.41E-07	358	-	-	-	-	-	490	-	-	-	-	-	644	-	-	-	-	-
2.5mM DTT 015 min dtt-1	-	-	-	258	-	-	-	-	-	492	-	-	-	-	-	492	-	-	-	-	-	492	-	-	-	-	
2.5mM DTT 030 min dtt-1	*YAP7*	1	54	252	0.0154	0.322	> 1	> 1	> 1	327	0.000306	0.00492	0.166	> 1	> 1	472	0.000273	0.00304	0.103	> 1	> 1	472	-	-	-	-	-
	YAP1	1	16		-	-	-	-	-		0.00356	0.0572	> 1	> 1	> 1		0.000863	0.00961	0.324	> 1	> 1		-	-	-	-	-
	HAP1, YAP1	2	2		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00427	0.0475	> 1	> 1	> 1
2.5mM DTT 045 min dtt-1	*HSF1*	1	67	274	0.0183	0.351	> 1	> 1	> 1	356	-	-	-	-	-	356	-	-	-	-	-	505	-	-	-	-	-
	YAP7	1	57		-	-	-	-	-		0.0246	0.362	> 1	> 1	> 1		0.0201	0.296	> 1	> 1	> 1		0.00938	0.0975	> 1	> 1	> 1
	YAP1	1	16		-	-	-	-	-		0.0371	0.548	> 1	> 1	> 1		0.0114	0.169	> 1	> 1	> 1		0.00092	0.00957	0.322	> 1	> 1
2.5mM DTT 060 min dtt-1	*HSF1*	1	59	218	3.68E-05	0.000887	0.0299	0.747	> 1	354	-	-	-	-	-	354	-	-	-	-	-	487	-	-	-	-	-
	MSN2	1	18		0.0241	0.581	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STE12	1	97		0.0464	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP7	1	58		-	-	-	-	-		-	-	-	-	-		0.00036	0.00534	0.18	> 1	> 1		0.0307	0.331	> 1	> 1	> 1
	YAP1	1	16		-	-	-	-	-		-	-	-	-	-		0.0193	0.287	> 1	> 1	> 1		-	-	-	-	-
2.5mM DTT 090 min dtt-1	*STE12*	1	104	230	0.0021	0.048	> 1	> 1	> 1	380	0.000453	0.00626	0.211	> 1	> 1	380	-	-	-	-	-	536	-	-	-	-	-
2.5mM DTT 120 min dtt-1	*STE12*	1	103	229	0.000562	0.0129	0.434	> 1	> 1	288	2.32E-05	0.000424	0.0143	0.357	> 1	385	-	-	-	-	-	527	-	-	-	-	-
2.5mM DTT 180 min dtt-1	*STE12*	1	95	216	0.00202	0.0492	> 1	> 1	> 1	280	0.0272	0.51	> 1	> 1	> 1	372	-	-	-	-	-	372	-	-	-	-	-
dtt 000 min dtt-2	*FHL1*	1	85	235	1.76E-23	3.94E-22	1.33E-20	3.32E-19	6.58E-18	403	3.06E-31	3.99E-30	1.35E-28	3.37E-27	6.67E-26	553	-	-	-	-	-	553	-	-	-	-	-
	SFP1	1	20		9.18E-06	0.000205	0.00691	0.173	> 1		6.69E-13	8.72E-12	2.94E-10	7.35E-09	1.46E-07		-	-	-	-	-		-	-	-	-	-
dtt 015 min dtt-2	*FHL1*	1	86	233	5.48E-21	1.24E-19	4.16E-18	1.04E-16	2.06E-15	398	2.59E-07	3.42E-06	0.000115	0.00288	0.0571	549	-	-	-	-	-	-	-	-	-	-	-
	SFP1	1	20		3.18E-05	0.000717	0.0241	0.604	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
dtt 030 min dtt-2	*FHL1*	1	87	301	2.00E-20	3.50E-19	1.18E-17	2.95E-16	5.84E-15	553	-	-	-	-	-	701	-	-	-	-	-	701	-	-	-	-	-
	YAP1	1	17		1.12E-08	1.95E-07	6.58E-06	0.000165	0.00326		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SFP1	1	20		2.82E-07	4.93E-06	0.000166	0.00415	0.0823		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CAD1, YAP7	2	12		0.000437	0.00762	0.257	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
dtt 060 min dtt-2	*YAP7*	1	65	303	0.00167	0.029	0.978	> 1	> 1	553	0.0428	0.406	> 1	> 1	> 1	553	-	-	-	-	-	553	-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.017	0.161	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
dtt 120 min dtt-2	*STE12*	1	104	236	5.98E-07	1.33E-05	0.000449	0.0112	0.222	401	-	-	-	-	-	548	-	-	-	-	-	694	-	-	-	-	-
	RPN4	1	63		0.00855	0.19	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TYE7	1	34		0.0161	0.357	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STE12, DIG1	2	58		-	-	-	-	-		0.000624	0.00818	0.275	> 1	> 1		-	-	-	-	-		-	-	-	-	-
dtt 240 min dtt-2	*SKN7*	1	73	195	0.00177	0.0476	> 1	> 1	> 1	301	-	-	-	-	-	399	-	-	-	-	-	550	-	-	-	-	-
	HSF1	1	70		0.0444	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP4	1	26		0.0454	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.0147	0.256	> 1	> 1	> 1		0.00196	0.0258	0.869	> 1	> 1		-	-	-	-	-
	RLM1	1	9		-	-	-	-	-		0.0492	0.858	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
dtt 480 min dtt-2	*SWI6*	1	88	303	7.06E-11	1.22E-09	4.12E-08	1.03E-06	2.04E-05	398	0.000379	0.00501	0.169	> 1	> 1	548	-	-	-	-	-	548	-	-	-	-	-
	SWI4	1	66		1.55E-09	2.70E-08	9.08E-07	2.27E-05	0.00045		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TEC1	1	34		7.35E-05	0.00127	0.0429	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NRG1	1	54		0.00822	0.142	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		0.0287	0.498	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	41		0.0301	0.522	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RLM1	1	9		-	-	-	-	-		0.00273	0.036	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1.5 mM diamide (5 min)	*HSF1*	1	70	299	1.17E-20	2.05E-19	6.90E-18	1.73E-16	3.42E-15	399	3.87E-13	5.09E-12	1.72E-10	4.29E-09	8.50E-08	548	0.00503	0.0482	> 1	> 1	> 1	548	-	-	-	-	-
	YAP7	1	64		5.87E-15	1.03E-13	3.47E-12	8.68E-11	1.72E-09		6.83E-08	8.99E-07	3.03E-05	0.000758	0.015		0.000192	0.00184	0.0621	> 1	> 1		-	-	-	-	-
	MSN4	1	25		1.52E-08	2.66E-07	8.97E-06	0.000224	0.00445		0.000502	0.00661	0.223	> 1	> 1		0.00324	0.0311	> 1	> 1	> 1		-	-	-	-	-
	MSN2	1	21		1.91E-06	3.35E-05	0.00113	0.0283	0.56		5.31E-06	6.99E-05	0.00235	0.0589	> 1		0.0367	0.352	> 1	> 1	> 1		-	-	-	-	-
	YAP1	1	17		1.53E-05	0.000268	0.00903	0.226	> 1		2.38E-05	0.000314	0.0106	0.264	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7, NRG1	2	8		0.00601	0.106	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STB5	1	15		0.00822	0.144	> 1	> 1	> 1		0.00706	0.0929	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CIN5	1	52		0.0257	0.451	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
1.5 mM diamide (10 min)	*HSF1*	1	70	195	3.34E-12	9.01E-11	3.03E-09	7.59E-08	1.50E-06	304	3.59E-22	6.21E-21	2.09E-19	5.23E-18	1.04E-16	401	1.11E-12	1.45E-11	4.89E-10	1.22E-08	2.42E-07	401	1.09E-09	1.43E-08	4.81E-07	1.20E-05	0.000239
	YAP7	1	64		5.97E-11	1.61E-09	5.41E-08	1.35E-06	2.68E-05		1.23E-11	2.12E-10	7.16E-09	1.79E-07	3.55E-06		5.79E-07	7.58E-06	0.000255	0.00639	0.127		0.000262	0.00343	0.116	> 1	> 1
	HAP4	1	27		1.18E-08	3.18E-07	1.07E-05	0.000268	0.00531		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RPN4	1	61		2.68E-07	7.21E-06	0.000243	0.00607	0.12		0.000222	0.00383	0.129	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		2.08E-06	5.61E-05	0.00189	0.0473	0.938		1.07E-05	0.000185	0.00625	0.156	> 1		2.08E-05	0.000273	0.0092	0.23	> 1		1.15E-06	1.51E-05	0.000509	0.0127	0.252
	MSN2	1	21		3.04E-05	0.000818	0.0276	0.689	> 1		1.27E-05	0.00022	0.00741	0.185	> 1		3.37E-06	4.41E-05	0.00149	0.0372	0.736		0.00644	0.0843	> 1	> 1	> 1
	YAP1	1	17		-	-	-	-	-		0.000204	0.00353	0.119	> 1	> 1		0.0045	0.0589	> 1	> 1	> 1		-	-	-	-	-
	STB5	1	15		-	-	-	-	-		0.000823	0.0142	0.479	> 1	> 1		0.00192	0.0252	0.848	> 1	> 1		-	-	-	-	-
1.5 mM diamide (20 min)	*HSF1*	1	70	195	7.60E-12	2.05E-10	6.90E-09	1.73E-07	3.42E-06	304	2.13E-15	3.68E-14	1.24E-12	3.10E-11	6.14E-10	402	6.43E-16	8.41E-15	2.83E-13	7.08E-12	1.40E-10	402	5.89E-10	7.70E-09	2.59E-07	6.49E-06	0.000129
	RPN4	1	61		7.80E-08	2.10E-06	7.08E-05	0.00177	0.0351		5.80E-10	1.00E-08	3.37E-07	8.44E-06	0.000167		-	-	-	-	-		-	-	-	-	-
	YAP7	1	64		1.09E-07	2.93E-06	9.88E-05	0.00247	0.049		3.58E-06	6.19E-05	0.00208	0.0521	> 1		0.00282	0.0369	> 1	> 1	> 1		0.0158	0.207	> 1	> 1	> 1
	MSN4	1	25		6.14E-07	1.65E-05	0.000557	0.0139	0.276		3.36E-05	0.00058	0.0195	0.489	> 1		3.47E-05	0.000453	0.0153	0.382	> 1		0.00101	0.0132	0.446	> 1	> 1
	MSN2	1	21		8.37E-05	0.00226	0.076	> 1	> 1		5.56E-09	9.61E-08	3.24E-06	8.10E-05	0.00161		7.73E-05	0.00101	0.034	0.851	> 1		0.000268	0.0035	0.118	> 1	> 1
	STB5	1	14		0.00374	0.101	> 1	> 1	> 1		0.000295	0.00509	0.171	> 1	> 1		0.000523	0.00684	0.23	> 1	> 1		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.0261	0.452	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SNT2	1	18		-	-	-	-	-		0.0431	0.744	> 1	> 1	> 1		0.05	0.653	> 1	> 1	> 1		-	-	-	-	-
1.5 mM diamide (30 min)	*RPN4*	1	62	195	3.71E-09	1.00E-07	3.37E-06	8.43E-05	0.00167	306	3.40E-11	5.83E-10	1.96E-08	4.91E-07	9.74E-06	402	-	-	-	-	-	402	-	-	-	-	-
	YAP7	1	65		2.96E-08	7.98E-07	2.69E-05	0.000673	0.0133		1.76E-06	3.02E-05	0.00102	0.0255	0.505		0.022	0.288	> 1	> 1	> 1		-	-	-	-	-
	HSF1	1	70		1.37E-07	3.68E-06	0.000124	0.0031	0.0614		3.06E-11	5.26E-10	1.77E-08	4.43E-07	8.78E-06		2.03E-08	2.65E-07	8.93E-06	0.000223	0.00443		6.95E-06	9.08E-05	0.00306	0.0765	> 1
	MSN4	1	25		5.41E-05	0.00146	0.0491	> 1	> 1		0.00364	0.0624	> 1	> 1	> 1		0.000551	0.0072	0.242	> 1	> 1		0.000847	0.0111	0.373	> 1	> 1
	MSN2	1	21		0.000661	0.0178	0.6	> 1	> 1		2.85E-06	4.90E-05	0.00165	0.0413	0.818		9.42E-05	0.00123	0.0414	> 1	> 1		0.000223	0.00292	0.0984	> 1	> 1
	STB5	1	15		-	-	-	-	-		0.000891	0.0153	0.515	> 1	> 1		0.0011	0.0144	0.484	> 1	> 1		-	-	-	-	-
1.5 mM diamide (40 min)	*HSF1*	1	70	195	3.27E-10	8.81E-09	2.97E-07	7.42E-06	0.000147	300	2.85E-12	5.00E-11	1.68E-09	4.21E-08	8.34E-07	399	1.03E-09	1.35E-08	4.56E-07	1.14E-05	0.000226	399	0.000274	0.0036	0.121	> 1	> 1
	RPN4	1	61		2.84E-09	7.66E-08	2.58E-06	6.46E-05	0.00128		9.60E-10	1.68E-08	5.66E-07	1.42E-05	0.000281		-	-	-	-	-		-	-	-	-	-
	YAP7	1	65		2.30E-07	6.20E-06	0.000209	0.00522	0.103		7.51E-06	0.000131	0.00443	0.111	> 1		0.0146	0.192	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	25		7.44E-06	0.0002	0.00675	0.169	> 1		0.000401	0.00701	0.236	> 1	> 1		0.0413	0.544	> 1	> 1	> 1		0.000539	0.0071	0.239	> 1	> 1
	MSN2	1	21		0.000802	0.0216	0.728	> 1	> 1		2.45E-06	4.29E-05	0.00145	0.0362	0.716		0.000967	0.0127	0.429	> 1	> 1		0.00281	0.037	> 1	> 1	> 1
	AFT2	1	58		0.0492	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STB5	1	15		-	-	-	-	-		0.000797	0.014	0.47	> 1	> 1		0.000828	0.0109	0.367	> 1	> 1		0.00743	0.0978	> 1	> 1	> 1
1.5 mM diamide (50 min)	*HSF1*	1	69	195	5.35E-12	1.44E-10	4.86E-09	1.21E-07	2.41E-06	305	1.34E-10	2.30E-09	7.75E-08	1.94E-06	3.84E-05	402	6.29E-08	8.22E-07	2.77E-05	0.000692	0.0137	402	0.00646	0.0844	> 1	> 1	> 1
	RPN4	1	61		3.23E-11	8.70E-10	2.93E-08	7.33E-07	1.45E-05		3.92E-11	6.76E-10	2.28E-08	5.69E-07	1.13E-05		-	-	-	-	-		-	-	-	-	-
	YAP7	1	65		1.80E-08	4.86E-07	1.64E-05	0.00041	0.00812		4.31E-06	7.43E-05	0.0025	0.0626	> 1		-	-	-	-	-		0.0364	0.475	> 1	> 1	> 1
	MSN4	1	25		0.000236	0.00636	0.214	> 1	> 1		0.0112	0.193	> 1	> 1	> 1		0.0343	0.448	> 1	> 1	> 1		0.0189	0.247	> 1	> 1	> 1
	MSN2	1	21		0.00055	0.0148	0.5	> 1	> 1		0.0192	0.331	> 1	> 1	> 1		0.0116	0.152	> 1	> 1	> 1		0.00764	0.0999	> 1	> 1	> 1
	STB5	1	14		0.00643	0.173	> 1	> 1	> 1		0.00675	0.116	> 1	> 1	> 1		0.000772	0.0101	0.34	> 1	> 1		-	-	-	-	-
1.5 mM diamide (60	*HSF1*	1	70	194	2.06E-14	5.56E-13	1.87E-11	4.69E-10	9.29E-09	303	9.40E-14	1.63E-12	5.49E-11	1.37E-09	2.72E-08	401	8.52E-09	1.12E-07	3.76E-06	9.40E-05	0.00186	401	2.59E-06	3.39E-05	0.00114	0.0285	0.566
	RPN4	1	61		6.39E-10	1.73E-08	5.83E-07	1.46E-05	0.000289		6.49E-10	1.13E-08	3.79E-07	9.49E-06	0.000188		-	-	-	-	-		-	-	-	-	-

min)	*STB5*	1	15		0.000361	0.00977	0.329	> 1	> 1		0.00227	0.0393	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7	1	65		0.00105	0.0284	0.955	> 1	> 1		0.000832	0.0144	0.486	> 1	> 1		0.00639	0.0838	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.00406	0.0704	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.00572	0.0992	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1.5 mM diamide (90 min)	*HSF1*	1	70	240	5.83E-16	1.28E-14	4.30E-13	1.08E-11	2.13E-10	404	2.61E-21	3.39E-20	1.14E-18	2.86E-17	5.66E-16	404	3.32E-09	4.32E-08	1.46E-06	3.64E-05	0.000722	552	0.00203	0.0193	0.65	> 1	> 1
	RPN4	1	62		9.93E-07	2.17E-05	0.000732	0.0183	0.363		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP7	1	65		7.17E-05	0.00157	0.0528	> 1	> 1		8.66E-07	1.13E-05	0.000379	0.00949	0.188		-	-	-	-	-		-	-	-	-	-
	STB5	1	15		0.00381	0.0834	> 1	> 1	> 1		8.90E-05	0.00116	0.039	0.975	> 1		0.018	0.233	> 1	> 1	> 1		-	-	-	-	-
	MSN2	1	21		0.0182	0.398	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		0.0195	0.427	> 1	> 1	> 1		0.00499	0.0649	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	STE12, SWI6	2	23		0.0468	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
1M sorbitol - 5 min	*HSF1*	1	70	396	3.21E-13	4.26E-12	1.43E-10	3.59E-09	7.11E-08	396	6.23E-06	8.26E-05	0.00278	0.0696	> 1	544	-	-	-	-	-	544	-	-	-	-	-
	RLM1, NRG1	2	3		0.0481	0.638	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
1M sorbitol - 15 min	*HSF1*	1	70	233	2.10E-05	0.000473	0.0159	0.399	> 1	301	5.18E-07	9.04E-06	0.000305	0.00762	0.151	397	2.76E-07	3.65E-06	0.000123	0.00308	0.061	397	7.33E-05	0.00097	0.0327	0.818	> 1
	MSN2	1	21		0.0288	0.65	> 1	> 1	> 1		-	-	-	-	-		0.00754	0.0998	> 1	> 1	> 1		0.00766	0.101	> 1	> 1	> 1
	SKO1	1	6		-	-	-	-	-		0.00205	0.0358	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
1M sorbitol - 30 min	*RPN4*	1	63	236	4.84E-07	1.08E-05	0.000363	0.00909	0.18	399	0.00993	0.131	> 1	> 1	> 1	399	-	-	-	-	-	547	-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.0428	0.564	> 1	> 1	> 1		0.0139	0.183	> 1	> 1	> 1		-	-	-	-	-
	HSF1	1	70		-	-	-	-	-		-	-	-	-	-		0.0177	0.234	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.0342	0.45	> 1	> 1	> 1		-	-	-	-	-
1M sorbitol - 45 min	*HSF1*	1	70	301	3.30E-07	5.75E-06	0.000194	0.00485	0.0961	400	-	-	-	-	-	550	-	-	-	-	-	550	-	-	-	-	-
	MSN2	1	21		0.0078	0.136	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		0.0431	0.412	> 1	> 1	> 1
	CIN5	1	52		-	-	-	-	-		0.0349	0.458	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.00219	0.0209	0.703	> 1	> 1		-	-	-	-	-
	SKN7, NRG1	2	9		-	-	-	-	-		-	-	-	-	-		0.0429	0.41	> 1	> 1	> 1		-	-	-	-	-
1M sorbitol - 60 min	*MET32*	1	13	397	0.00444	0.0588	> 1	> 1	> 1	546	-	-	-	-	-	546	-	-	-	-	-	546	-	-	-	-	-
	MET4	1	7		0.00539	0.0713	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RLM1, NRG1	2	3		0.00652	0.0862	> 1	> 1	> 1		-	-	-	-	-		0.00588	0.0566	> 1	> 1	> 1		-	-	-	-	-
	SWI4, SWI6	2	50		0.0131	0.173	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RLM1, NRG1, SKO1	3	2		-	-	-	-	-		0.0244	-	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	BAS1, MET4	2	3		0.00652	0.0862	> 1	> 1	> 1		-	-	-	-	-		0.00588	0.0566	> 1	> 1	> 1		-	-	-	-	-
1M sorbitol - 90 min	*GLN3*	1	33	393	0.00285	0.0381	> 1	> 1	> 1	543	-	-	-	-	-	543	-	-	-	-	-	-	-	-	-	-	-
	RLM1, NRG1	2	3		0.0316	0.423	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GCN4	1	127		0.0412	0.55	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
1M sorbitol - 120 min	*MSN2*	1	21	296	0.000336	0.00597	0.201	> 1	> 1	546	-	-	-	-	-	546	0.0131	0.126	> 1	> 1	> 1	694	-	-	-	-	-
	SKO1	1	6		0.0465	0.825	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Hypo-osmotic shock - 5 min	*BAS1*	1	24	306	3.59E-08	6.17E-07	2.08E-05	0.00052	0.0103	402	0.0182	0.238	> 1	> 1	> 1	555	-	-	-	-	-	555	-	-	-	-	-
	GCN4	1	128		3.65E-05	0.000627	0.0211	0.528	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		5.15E-05	0.000884	0.0298	0.745	> 1		0.0128	0.167	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CBF1	1	152		0.000142	0.00243	0.0818	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MOT3, AFT2, RCS1	3	4		0.00901	-	> 1	> 1	> 1		0.00791	-	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	INO2	1	28		0.036	0.618	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	INO4	1	23		0.0465	0.798	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	41		-	-	-	-	-		0.0252	0.329	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		-	-	-	-	-		0.0429	0.406	> 1	> 1	> 1		-	-	-	-	-
	SOK2, CIN5, SKN7	3	5		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0405	-	> 1	> 1	> 1
Hypo-osmotic shock - 15 min	-	-	-	306	-	-	-	-	-	403	-	-	-	-	-	556	-	-	-	-	-	556	-	-	-	-	
Hypo-osmotic shock - 30 min	-	-	-	304	-	-	-	-	-	403	-	-	-	-	-	552	-	-	-	-	-	552	-	-	-	-	
Hypo-osmotic shock - 45 min	-	-	-	304	-	-	-	-	-	553	-	-	-	-	-	553	-	-	-	-	-	553	-	-	-	-	
Hypo-osmotic shock - 60 min	*PHO4*	1	24	306	-	-	-	-	-	554	0.0463	0.439	> 1	> 1	> 1	554	-	-	-	-	-	554	-	-	-	-	-
steady-state 1M sorbitol	*INO4*	1	23	297	0.0105	0.186	> 1	> 1	> 1	391	-	-	-	-	-	537	-	-	-	-	-	537	-	-	-	-	-
aa starv 0.5 h	*GCN4*	1	123	168	1.55E-06	4.84E-05	0.00163	0.0408	0.808	302	4.54E-10	7.90E-09	2.66E-07	6.66E-06	0.000132	302	0.000102	0.00178	0.0598	> 1	> 1	400	0.0089	0.117	> 1	> 1	> 1
	GLN3	1	33		5.92E-06	0.000185	0.00624	0.156	> 1		1.46E-05	0.000253	0.00854	0.214	> 1		3.70E-05	0.000644	0.0217	0.543	> 1		0.000172	0.00225	0.0759	> 1	> 1
	MSN2	1	21		0.00351	0.11	> 1	> 1	> 1		0.00636	0.111	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MET32	1	12		0.0106	0.332	> 1	> 1	> 1		8.41E-05	0.00146	0.0493	> 1	> 1		-	-	-	-	-		6.67E-06	8.76E-05	0.00295	0.0739	> 1
	AFT2	1	56		0.0225	0.705	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	39		0.0416	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		0.0263	0.457	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MET32, CBF1	2	8		-	-	-	-	-		-	-	-	-	-		0.00026	0.00452	0.152	> 1	> 1		-	-	-	-	-
	MET4	1	7		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0115	0.151	> 1	> 1	> 1
aa starv 1 h	*GCN4*	1	125	236	6.22E-20	1.38E-18	4.66E-17	1.17E-15	2.31E-14	401	1.31E-22	1.72E-21	5.78E-20	1.45E-18	2.87E-17	401	4.38E-18	5.74E-17	1.93E-15	4.83E-14	9.58E-13	401	4.01E-10	5.25E-09	1.77E-07	4.42E-06	8.76E-05
	BAS1	1	24		1.79E-07	3.97E-06	0.000134	0.00335	0.0664		1.67E-08	2.19E-07	7.36E-06	0.000184	0.00365		3.99E-09	5.22E-08	1.76E-06	4.40E-05	0.000872		-	-	-	-	-
	GLN3	1	32		1.54E-06	3.43E-05	0.00116	0.0289	0.573		2.27E-11	2.97E-10	1.00E-08	2.51E-07	4.97E-06		1.15E-11	1.50E-10	5.07E-09	1.27E-07	2.51E-06		4.57E-14	5.98E-13	2.02E-11	5.04E-10	9.99E-09
	MET32	1	13		0.000199	0.00442	0.149	> 1	> 1		-	-	-	-	-		0.000245	0.00321	0.108	> 1	> 1		-	-	-	-	-
	MSN2	1	20		0.0072	0.16	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		1.79E-07	3.97E-06	0.000134	0.00335	0.0664		1.67E-08	2.19E-07	7.36E-06	0.000184	0.00365		3.99E-09	5.22E-08	1.76E-06	4.40E-05	0.000872		-	-	-	-	-
	STB5	1	15		0.0158	0.351	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET32, CBF1	2	8		-	-	-	-	-		0.00903	0.118	> 1	> 1	> 1		-	-	-	-	-		0.00105	0.0137	0.462	> 1	> 1
	RTG3	1	6		-	-	-	-	-		0.0473	0.62	> 1	> 1	> 1		0.0033	0.0433	> 1	> 1	> 1		-	-	-	-	-
aa starv 2 h	*GCN4*	1	124	302	4.40E-20	7.66E-19	2.58E-17	6.45E-16	1.28E-14	399	1.17E-13	1.54E-12	5.18E-11	1.30E-09	2.57E-08	399	5.54E-06	7.30E-05	0.00246	0.0615	> 1	552	0.00116	0.011	0.371	> 1	> 1
	BAS1	1	24		1.05E-08	1.82E-07	6.14E-06	0.000154	0.00304		7.05E-14	9.29E-13	3.13E-11	7.83E-10	1.55E-08		3.20E-08	4.21E-07	1.42E-05	0.000355	0.00703		0.0121	0.115	> 1	> 1	> 1
	GLN3	1	32		4.02E-07	6.99E-06	0.000235	0.00589	0.117		1.14E-08	1.50E-07	5.04E-06	0.000126	0.0025		1.46E-05	0.000193	0.00649	0.162	> 1		4.11E-05	0.000391	0.0132	0.329	> 1
	MET32	1	13		0.000158	0.00275	0.0926	> 1	> 1		0.00125	0.0165	0.555	> 1	> 1		1.22E-05	0.00016	0.0054	0.135	> 1		-	-	-	-	-
	CBF1	1	152		0.00173	0.0301	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET4	1	7		0.00204	0.0355	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

	LEU3	1	14		0.00553	0.0962	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GAT1	1	10		0.0469	0.815	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET32, CBF1	2	8		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0103	0.0983	> 1	> 1	> 1
aa starv 4 h	*GCN4*	1	124	234	1.08E-10	2.43E-09	8.18E-08	2.05E-06	4.05E-05	399	6.62E-12	8.71E-11	2.94E-09	7.34E-08	1.45E-06	399	1.06E-05	0.00014	0.00471	0.118	> 1	553	0.0316	0.3	> 1	> 1	> 1
	GLN3	1	32		6.69E-06	0.00015	0.00506	0.127	> 1		1.32E-12	1.74E-11	5.85E-10	1.46E-08	2.90E-07		3.33E-11	4.39E-10	1.48E-08	3.70E-07	7.33E-06		2.49E-06	2.37E-05	0.000798	0.02	0.396
	MET32	1	12		0.000384	0.00863	0.291	> 1	> 1		0.00258	0.034	> 1	> 1	> 1		0.000451	0.00593	0.2	> 1	> 1		-	-	-	-	-
	BAS1	1	23		0.00895	0.201	> 1	> 1	> 1		5.14E-07	6.76E-06	0.000228	0.0057	0.113		0.0164	0.216	> 1	> 1	> 1		-	-	-	-	-
	HAP4	1	26		0.00932	0.209	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	39		0.044	0.988	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CBF1	1	152		-	-	-	-	-		0.000129	0.0017	0.0571	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3, ROX1	2	3		-	-	-	-	-		0.0381	0.502	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
aa starv 6 h	*GCN4*	1	123	236	4.53E-12	1.01E-10	3.40E-09	8.50E-08	1.68E-06	303	1.64E-11	2.84E-10	9.56E-09	2.39E-07	4.74E-06	403	-	-	-	-	-	553	-	-	-	-	-
	GLN3	1	33		1.99E-06	4.43E-05	0.00149	0.0374	0.741		2.36E-12	4.09E-11	1.38E-09	3.45E-08	6.83E-07		2.14E-10	2.79E-09	9.40E-08	2.35E-06	4.66E-05		6.34E-06	6.02E-05	0.00203	0.0508	> 1
	INO4	1	23		0.000182	0.00406	0.137	> 1	> 1		4.42E-05	0.000767	0.0258	0.646	> 1		-	-	-	-	-		-	-	-	-	-
	MET32	1	12		0.0004	0.0089	0.3	> 1	> 1		0.0059	0.102	> 1	> 1	> 1		0.000808	0.0105	0.355	> 1	> 1		-	-	-	-	-
	INO2	1	28		0.00559	0.124	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET4	1	7		0.0487	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP4	1	26		0.0496	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	BAS1	1	23		0.000182	0.00406	0.137	> 1	> 1		4.42E-05	0.000767	0.0258	0.646	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7, GCN4	2	9		-	-	-	-	-		-	-	-	-	-		0.000135	0.00176	0.0592	> 1	> 1		-	-	-	-	-
Nitrogen Depletion 30 min.	*GCN4*	1	127	195	8.55E-10	2.30E-08	7.76E-07	1.94E-05	0.000385	306	2.38E-15	4.09E-14	1.38E-12	3.45E-11	6.83E-10	402	3.38E-14	4.42E-13	1.49E-11	3.72E-10	7.37E-09	402	1.22E-06	1.60E-05	0.000538	0.0134	0.266
	GLN3	1	33		0.000966	0.026	0.876	> 1	> 1		1.66E-09	2.86E-08	9.62E-07	2.41E-05	0.000477		1.95E-12	2.54E-11	8.57E-10	2.14E-08	4.25E-07		4.13E-15	5.40E-14	1.82E-12	4.55E-11	9.01E-10
	BAS1	1	24		0.00576	0.155	> 1	> 1	> 1		1.22E-07	2.09E-06	7.05E-05	0.00176	0.0349		3.59E-05	0.000469	0.0158	0.395	> 1		0.000112	0.00147	0.0495	> 1	> 1
	RPN4	1	61		0.0133	0.358	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CBF1	1	151		0.0195	0.526	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET32	1	13		-	-	-	-	-		2.26E-05	0.000389	0.0131	0.328	> 1		-	-	-	-	-		3.46E-05	0.000453	0.0153	0.382	> 1
	MET4	1	7		-	-	-	-	-		0.000545	0.00936	0.315	> 1	> 1		0.0235	0.307	> 1	> 1	> 1		-	-	-	-	-
	MET32, CBF1	2	8		-	-	-	-	-		-	-	-	-	-		2.54E-05	0.000332	0.0112	0.28	> 1		-	-	-	-	-
Nitrogen Depletion 1 h	*GCN4*	1	127	195	1.73E-13	4.65E-12	1.57E-10	3.92E-09	7.77E-08	305	3.78E-18	6.52E-17	2.20E-15	5.49E-14	1.09E-12	402	4.56E-16	5.96E-15	2.01E-13	5.02E-12	9.95E-11	402	2.49E-14	3.26E-13	1.10E-11	2.75E-10	5.44E-09
	BAS1	1	24		0.000579	0.0156	0.525	> 1	> 1		1.15E-05	0.000198	0.00668	0.167	> 1		1.01E-06	1.32E-05	0.000444	0.0111	0.22		0.00169	0.0221	0.746	> 1	> 1
	GLN3	1	33		0.0129	0.348	> 1	> 1	> 1		8.11E-09	1.40E-07	4.71E-06	0.000118	0.00233		2.14E-14	2.80E-13	9.44E-12	2.36E-10	4.68E-09		3.56E-12	4.65E-11	1.57E-09	3.92E-08	7.76E-07
	MET32	1	13		0.0244	0.657	> 1	> 1	> 1		1.30E-05	0.000225	0.00757	0.189	> 1		7.92E-07	1.04E-05	0.000349	0.00872	0.173		4.69E-07	6.13E-06	0.000206	0.00516	0.102
	MET4	1	7		-	-	-	-	-		0.014	0.241	> 1	> 1	> 1		0.0179	0.234	> 1	> 1	> 1		-	-	-	-	-
	CBF1	1	151		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		7.38E-06	9.64E-05	0.00325	0.0812	> 1
Nitrogen Depletion 2 h	*GCN4*	1	127	237	7.94E-18	1.76E-16	5.93E-15	1.48E-13	2.94E-12	402	1.60E-25	2.09E-24	7.05E-23	1.76E-21	3.49E-20	402	3.65E-22	4.78E-21	1.61E-19	4.02E-18	7.97E-17	402	8.64E-10	1.13E-08	3.80E-07	9.52E-06	0.000189
	BAS1	1	24		6.39E-08	1.42E-06	4.77E-05	0.00119	0.0237		4.72E-12	6.17E-11	2.08E-09	5.20E-08	1.03E-06		8.50E-10	1.11E-08	3.74E-07	9.36E-06	0.000185		9.38E-09	1.23E-07	4.13E-06	0.000103	0.00205
	GLN3	1	33		2.19E-06	4.85E-05	0.00164	0.0409	0.811		6.54E-12	8.54E-11	2.88E-09	7.20E-08	1.43E-06		4.19E-17	5.48E-16	1.85E-14	4.62E-13	9.15E-12		3.23E-17	4.22E-16	1.42E-14	3.55E-13	7.04E-12
	LEU3	1	14		0.0165	0.365	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STB5	1	15		0.0353	0.782	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET32	1	13		-	-	-	-	-		0.000312	0.00408	0.137	> 1	> 1		0.00338	0.0442	> 1	> 1	> 1		0.00029	0.00379	0.128	> 1	> 1
	RTG3	1	6		-	-	-	-	-		0.0301	0.393	> 1	> 1	> 1		0.00189	0.0247	0.832	> 1	> 1		-	-	-	-	-
	CBF1	1	151		-	-	-	-	-		-	-	-	-	-		0.00565	0.0738	> 1	> 1	> 1		-	-	-	-	-
	MET4	1	7		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0415	0.542	> 1	> 1	> 1
Nitrogen Depletion 4 h	*GCN4*	1	127	236	2.48E-15	5.51E-14	1.86E-12	4.65E-11	9.21E-10	402	4.63E-17	6.05E-16	2.04E-14	5.10E-13	1.01E-11	402	4.56E-07	5.95E-06	0.000201	0.00502	0.0994	554	1.07E-05	0.000101	0.00341	0.0852	> 1
	BAS1	1	24		2.94E-11	6.55E-10	2.21E-08	5.52E-07	1.09E-05		1.86E-11	2.43E-10	8.17E-09	2.04E-07	4.05E-06		4.80E-10	6.27E-09	2.11E-07	5.29E-06	0.000105		7.89E-07	7.48E-06	0.000252	0.0063	0.125
	GLN3	1	33		1.54E-09	3.42E-08	1.15E-06	2.88E-05	0.000571		1.94E-13	2.53E-12	8.54E-11	2.14E-09	4.23E-08		1.37E-16	1.79E-15	6.03E-14	1.51E-12	2.99E-11		1.10E-10	1.04E-09	3.50E-08	8.75E-07	1.73E-05
	MBP1	1	110		5.17E-05	0.00115	0.0388	0.97	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MET32	1	13		0.000738	0.0164	0.553	> 1	> 1		1.83E-05	0.000239	0.00804	0.201	> 1		0.000457	0.00597	0.201	> 1	> 1		4.28E-05	0.000406	0.0137	0.342	> 1
	MET4	1	7		0.00546	0.121	> 1	> 1	> 1		0.0133	0.174	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	LEU3	1	14		0.02	0.446	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Nitrogen Depletion 8 h	*GLN3*	1	33	170	0.000492	0.0152	0.512	> 1	> 1	237	3.04E-10	6.73E-09	2.27E-07	5.67E-06	0.000112	306	4.61E-11	7.92E-10	2.67E-08	6.67E-07	1.32E-05	402	6.78E-11	8.86E-10	2.98E-08	7.46E-07	1.48E-05
	MSN2	1	21		0.00283	0.0873	> 1	> 1	> 1		0.0293	0.65	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	GCN4	1	127		-	-	-	-	-		0.0136	0.301	> 1	> 1	> 1		0.00555	0.0953	> 1	> 1	> 1		-	-	-	-	-
	SOK2	1	41		-	-	-	-	-		0.0267	0.593	> 1	> 1	> 1		0.0174	0.299	> 1	> 1	> 1		-	-	-	-	-
	YAP7, GCN4	2	9		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0369	0.482	> 1	> 1	> 1
Nitrogen Depletion 12 h	*GLN3*	1	33	168	6.16E-06	0.000193	0.00649	0.162	> 1	237	0.000471	0.0104	0.351	> 1	> 1	305	3.87E-07	6.66E-06	0.000224	0.00561	0.111	402	4.50E-07	5.88E-06	0.000198	0.00495	0.0981
	AFT2	1	58		0.0137	0.429	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	41		-	-	-	-	-		0.00318	0.0705	> 1	> 1	> 1		0.00459	0.0791	> 1	> 1	> 1		0.048	0.627	> 1	> 1	> 1
	SUT1	1	15		-	-	-	-	-		0.0102	0.226	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		-	-	-	-	-		0.0201	0.446	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	PHD1	1	34		-	-	-	-	-		0.0203	0.449	> 1	> 1	> 1		0.0228	0.393	> 1	> 1	> 1		0.0115	0.15	> 1	> 1	> 1
	MSN2	1	21		-	-	-	-	-		-	-	-	-	-		0.0153	0.263	> 1	> 1	> 1		-	-	-	-	-
	GCN4	1	126		-	-	-	-	-		-	-	-	-	-		0.0484	0.834	> 1	> 1	> 1		-	-	-	-	-
	CIN5	1	51		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.041	0.536	> 1	> 1	> 1
Nitrogen Depletion 1 d	*GLN3*	1	33	169	-	-	-	-	-	236	0.00461	0.103	> 1	> 1	> 1	303	5.05E-05	0.000875	0.0295	0.738	> 1	402	5.83E-05	0.000762	0.0257	0.642	> 1
Nitrogen Depletion 2 d	*GLN3*	1	33	147	0.00743	0.265	> 1	> 1	> 1	237	0.00761	0.169	> 1	> 1	> 1	302	0.000291	0.00507	0.171	> 1	> 1	401	2.10E-06	2.75E-05	0.000925	0.0231	0.459
	HSF1	1	70		-	-	-	-	-		-	-	-	-	-		0.0459	0.798	> 1	> 1	> 1		-	-	-	-	-
Nitrogen Depletion 3 d	*GLN3*	1	33	148	-	-	-	-	-	194	-	-	-	-	-	304	0.000342	0.00592	0.199	> 1	> 1	304	2.49E-05	0.00043	0.0145	0.363	> 1
Nitrogen Depletion 5 d	*GLN3*	1	33	147	0.021	0.75	> 1	> 1	> 1	194	0.0279	0.755	> 1	> 1	> 1	304	3.98E-05	0.000687	0.0231	0.579	> 1	401	9.30E-08	1.22E-06	4.11E-05	0.00103	0.0203
	UME6	1	91		-	-	-	-	-		-	-	-	-	-		0.0153	0.265	> 1	> 1	> 1		-	-	-	-	-
Diauxic Shift Timecourse - 0 h	-	-	-	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
diauxic shift timecourse 9.5 h	-	-	-	403	-	-	-	-	-	553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
diauxic shift timecourse11.5	*BAS1*	1	23	301	0.0268	0.468	> 1	> 1	> 1	543	-	-	-	-	-	543	-	-	-	-	-	688	-	-	-	-	-
diauxic shift timecourse 13.5 h	*MSN2*	1	20	403	3.13E-05	0.000408	0.0138	0.344	> 1	553	-	-	-	-	-	553	-	-	-	-	-	-	-	-	-	-	-
	RLM1, NRG1, SKO1	3	2		-	-	-	-	-		0.0217	-	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
diauxic shift timecourse 15.5 h	*HAP4*	1	25	403	7.38E-07	9.62E-06	0.000324	0.0081	0.161	554	-	-	-	-	-	554	-	-	-	-	-	554	-	-	-	-	-
	BAS1	1	23		0.00112	0.0147	0.494	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		0.00162	0.0212	0.713	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		0.00463	0.0604	> 1	> 1	> 1		0.0124	0.118	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HAP5	1	18		0.0278	0.362	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RLM1, NRG1, SKO1	3	2		-	-	-	-	-		0.0412	-	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-

diauxic shift timecourse 18.5 h	*HAP4*	1	26	171	3.84E-05	0.00118	0.0397	0.994	> 1	305	8.52E-07	1.47E-05	0.000494	0.0124	0.245	403	0.005	0.0651	> 1	> 1	> 1	403	-	-	-	-	-
	RPN4	1	64		0.00648	0.199	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HSF1	1	69		-	-	-	-	-		0.000722	0.0124	0.419	> 1	> 1		-	-	-	-	-		0.000418	0.00545	0.184	> 1	> 1
	MSN2	1	20		-	-	-	-	-		0.00235	0.0405	> 1	> 1	> 1		0.000511	0.00667	0.225	> 1	> 1		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		0.0323	0.557	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0404	0.526	> 1	> 1	> 1
diauxic shift timecourse 20.5 h	*HAP4*	1	26	238	3.32E-08	7.33E-07	2.47E-05	0.000617	0.0122	304	4.87E-13	8.41E-12	2.83E-10	7.09E-09	1.40E-07	400	1.23E-08	1.61E-07	5.42E-06	0.000136	0.00269	400	0.00021	0.00276	0.0929	> 1	> 1
	HSF1	1	69		1.19E-05	0.000262	0.00883	0.221	> 1		0.0014	0.0242	0.816	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SOK2	1	41		0.0011	0.0243	0.818	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP3	1	13		0.00616	0.136	> 1	> 1	> 1		-	-	-	-	-		0.027	0.355	> 1	> 1	> 1		-	-	-	-	-
	MSN2	1	20		0.0165	0.365	> 1	> 1	> 1		0.00114	0.0198	0.666	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	92		-	-	-	-	-		0.00617	0.107	> 1	> 1	> 1		-	-	-	-	-		0.00521	0.0684	> 1	> 1	> 1
	SKN7	1	72		-	-	-	-	-		0.0414	0.715	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HAP1	1	44		-	-	-	-	-		-	-	-	-	-		0.0103	0.135	> 1	> 1	> 1		0.000802	0.0105	0.355	> 1	> 1
YPD 2 h ypd-2	*BAS1*	1	24	235	0.0487	> 1	> 1	> 1	> 1	401	-	-	-	-	-	550	-	-	-	-	-	550	-	-	-	-	-
YPD 4 h ypd-2	*HAP4*	1	26	236	4.39E-07	9.76E-06	0.000329	0.00823	0.163	402	-	-	-	-	-	552	-	-	-	-	-	552	-	-	-	-	-
	BAS1	1	24		8.00E-05	0.00178	0.06	> 1	> 1		5.44E-08	7.11E-07	2.39E-05	0.000599	0.0119		0.000624	0.00594	0.2	> 1	> 1		-	-	-	-	-
	MSN2	1	20		0.0167	0.372	> 1	> 1	> 1		0.00129	0.0169	0.57	> 1	> 1		0.00965	0.0918	> 1	> 1	> 1		-	-	-	-	-
YPD 6 h ypd-2	*HAP4*	1	25	132	0.000404	0.0161	0.541	> 1	> 1	193	1.66E-05	0.000452	0.0152	0.381	> 1	233	7.36E-08	1.66E-06	5.59E-05	0.0014	0.0277	301	0.000195	0.00339	0.114	> 1	> 1
	MSN2	1	19		0.00636	0.253	> 1	> 1	> 1		0.0127	0.346	> 1	> 1	> 1		0.00563	0.127	> 1	> 1	> 1		0.00594	0.104	> 1	> 1	> 1
	HSF1	1	70		-	-	-	-	-		0.0426	> 1	> 1	> 1	> 1		0.0148	0.334	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		-	-	-	-	-		0.000369	0.00833	0.28	> 1	> 1		0.00813	0.142	> 1	> 1	> 1
YPD 8 h ypd-2	*HAP4*	1	25	150	2.49E-05	0.000871	0.0294	0.734	> 1	236	2.03E-07	4.51E-06	0.000152	0.0038	0.0754	304	4.57E-10	7.89E-09	2.66E-07	6.65E-06	0.000132	304	2.66E-12	4.60E-11	1.55E-09	3.87E-08	7.68E-07
	AFT2	1	56		0.0195	0.682	> 1	> 1	> 1		0.00013	0.0029	0.0977	> 1	> 1		0.026	0.449	> 1	> 1	> 1		-	-	-	-	-
	HAP2	1	19		0.0438	> 1	> 1	> 1	> 1		0.000751	0.0167	0.563	> 1	> 1		0.00329	0.0569	> 1	> 1	> 1		0.00565	0.0976	> 1	> 1	> 1
	MSN2	1	19		0.0438	> 1	> 1	> 1	> 1		0.000751	0.0167	0.563	> 1	> 1		0.00329	0.0569	> 1	> 1	> 1		0.00565	0.0976	> 1	> 1	> 1
	SKN7	1	73		-	-	-	-	-		0.00198	0.0441	> 1	> 1	> 1		0.0318	0.549	> 1	> 1	> 1		-	-	-	-	-
	HAP3	1	13		-	-	-	-	-		0.00216	0.048	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7	1	64		-	-	-	-	-		0.00998	0.222	> 1	> 1	> 1		0.00387	0.0669	> 1	> 1	> 1		-	-	-	-	-
	SUT1	1	15		-	-	-	-	-		0.0156	0.347	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		0.0268	0.598	> 1	> 1	> 1		0.00641	0.111	> 1	> 1	> 1		0.00513	0.0886	> 1	> 1	> 1
	HAP1	1	42		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0275	0.475	> 1	> 1	> 1
	CIN5	1	51		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0409	0.706	> 1	> 1	> 1
YPD 10 h ypd-2	*HAP4*	1	26	168	2.96E-06	9.25E-05	0.00312	0.0779	> 1	233	2.86E-10	6.44E-09	2.17E-07	5.43E-06	0.000108	304	8.75E-11	1.51E-09	5.09E-08	1.27E-06	2.52E-05	304	1.21E-12	2.09E-11	7.04E-10	1.76E-08	3.49E-07
	SOK2	1	39		0.000126	0.00393	0.132	> 1	> 1		0.017	0.384	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKO1	1	6		-	-	-	-	-		0.00513	0.116	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		-	-	-	-	-		0.0252	0.568	> 1	> 1	> 1		0.0128	0.22	> 1	> 1	> 1		0.00405	0.07	> 1	> 1	> 1
	YAP7	1	64		-	-	-	-	-		0.0371	0.837	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		-	-	-	-	-		0.0473	> 1	> 1	> 1	> 1		0.0119	0.205	> 1	> 1	> 1		-	-	-	-	-
	UME6	1	94		-	-	-	-	-		0.0484	> 1	> 1	> 1	> 1		0.00167	0.0289	0.972	> 1	> 1		0.0162	0.28	> 1	> 1	> 1
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.00228	0.0394	> 1	> 1	> 1		0.00318	0.0549	> 1	> 1	> 1
	NRG1	1	54		-	-	-	-	-		-	-	-	-	-		0.00859	0.148	> 1	> 1	> 1		-	-	-	-	-
YPD 12 h ypd-2	*HAP4*	1	26	169	2.53E-05	0.000787	0.0265	0.663	> 1	235	5.39E-09	1.21E-07	4.06E-06	0.000102	0.00201	303	6.81E-09	1.18E-07	3.98E-06	9.95E-05	0.00197	303	5.45E-07	9.44E-06	0.000318	0.00796	0.158
	HSF1	1	70		-	-	-	-	-		0.00768	0.172	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CIN5	1	51		-	-	-	-	-		0.0258	0.576	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		0.042	0.939	> 1	> 1	> 1		-	-	-	-	-		0.00358	0.0621	> 1	> 1	> 1
	SUT1	1	15		-	-	-	-	-		0.0464	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		-	-	-	-	-		0.0495	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		-	-	-	-	-		-	-	-	-	-		0.00311	0.0539	> 1	> 1	> 1		0.000584	0.0101	0.341	> 1	> 1
	HAP2	1	19		-	-	-	-	-		-	-	-	-	-		0.0152	0.263	> 1	> 1	> 1		-	-	-	-	-
	SOK2	1	39		-	-	-	-	-		-	-	-	-	-		0.0299	0.518	> 1	> 1	> 1		-	-	-	-	-
	HAP3	1	13		-	-	-	-	-		-	-	-	-	-		0.0394	0.683	> 1	> 1	> 1		-	-	-	-	-
YPD 1 d ypd-2	*HAP4*	1	26	168	0.000202	0.00632	0.213	> 1	> 1	233	0.000252	0.00568	0.191	> 1	> 1	302	0.00122	0.0213	0.718	> 1	> 1	302	-	-	-	-	-
	SUT1	1	15		0.0168	0.524	> 1	> 1	> 1		0.0109	0.245	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		0.048	> 1	> 1	> 1	> 1		0.00112	0.0252	0.849	> 1	> 1		0.00329	0.0572	> 1	> 1	> 1		0.00702	0.122	> 1	> 1	> 1
	HSF1	1	70		-	-	-	-	-		0.0297	0.669	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AFT2	1	56		-	-	-	-	-		0.0377	0.849	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SOK2	1	39		-	-	-	-	-		0.0476	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.0356	0.619	> 1	> 1	> 1		0.00583	0.101	> 1	> 1	> 1
	UME6	1	93		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0103	0.179	> 1	> 1	> 1
YPD 2 d ypd-2	*HAP4*	1	26	169	0.000322	0.01	0.337	> 1	> 1	237	5.36E-05	0.00119	0.04	> 1	> 1	302	0.0185	0.321	> 1	> 1	> 1	302	-	-	-	-	-
	MSN2	1	21		0.000575	0.0179	0.602	> 1	> 1		0.00364	0.0807	> 1	> 1	> 1		0.00145	0.0252	0.848	> 1	> 1		0.00122	0.0213	0.716	> 1	> 1
	GLN3	1	32		0.00212	0.0659	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SUT1	1	15		0.0224	0.696	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	39		0.0475	> 1	> 1	> 1	> 1		0.0198	0.44	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
YPD 3 d ypd-2	*MSN4*	1	24	148	0.00522	0.185	> 1	> 1	> 1	195	-	-	-	-	-	235	0.0485	> 1	> 1	> 1	> 1	303	-	-	-	-	-
	SUT1, SKN7	2	11		0.0191	0.679	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	20		0.0245	0.869	> 1	> 1	> 1		0.048	> 1	> 1	> 1	> 1		0.00566	0.127	> 1	> 1	> 1		-	-	-	-	-
	SOK2	1	39		0.0411	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PHD1, GCN4	2	5		-	-	-	-	-		-	-	-	-	-		0.0141	0.316	> 1	> 1	> 1		-	-	-	-	-
	HAP4	1	26		-	-	-	-	-		-	-	-	-	-		0.0229	0.511	> 1	> 1	> 1		-	-	-	-	-
	HAP3	1	13		-	-	-	-	-		-	-	-	-	-		0.0269	0.6	> 1	> 1	> 1		-	-	-	-	-
	UME6	1	94		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00228	0.0396	> 1	> 1	> 1
	PHD1	1	34		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0401	0.696	> 1	> 1	> 1
YPD 5 d ypd-2	*SOK2*	1	39	149	0.00683	0.241	> 1	> 1	> 1	195	0.0141	0.38	> 1	> 1	> 1	235	-	-	-	-	-	301	-	-	-	-	-
	HAP4	1	26		0.011	0.387	> 1	> 1	> 1		0.012	0.324	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	92		0.0276	0.972	> 1	> 1	> 1		0.0478	> 1	> 1	> 1	> 1		0.0164	0.367	> 1	> 1	> 1		0.00831	0.145	> 1	> 1	> 1
	THI2	1	8		0.0313	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.0477	> 1	> 1	> 1	> 1		-	-	-	-	-
	MSN2	1	20		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0323	0.563	> 1	> 1	> 1
YPD stationary phase 2 h ypd-1	*MSN2*	1	21	402	5.99E-06	7.83E-05	0.00264	0.066	> 1	553	-	-	-	-	-	702	-	-	-	-	-	-	-	-	-	-	-
	HSF1	1	70		6.60E-05	0.000863	0.0291	0.727	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	71		0.0128	0.168	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP1, YAP1	2	3		0.0468	0.611	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
YPD stationary phase 4 h ypd-1	*FHL1*	1	87	299	0.00174	0.0306	> 1	> 1	> 1	547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SWI6	1	87		0.00174	0.0306	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	STE12	1	106		0.0157	0.276	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GCR1	1	4		0.0197	0.346	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HSF1	1	70		0.0345	0.607	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		0.0341	0.328	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
YPD stationary	*HAP4*	1	24	159	0.000457	0.0151	0.508	> 1	> 1	248	9.66E-06	0.000205	0.00689	0.172	> 1	328	-	-	-	-	-	474	-	-	-	-	-
	MSN2	1	17		0.00356	0.118	> 1	> 1	> 1		0.000281	0.00594	0.2	> 1	> 1		0.00117	0.0187	0.63	> 1	> 1		-	-	-	-	-

phase 8 h ypd-1	*BAS1*	1	21		0.0129	0.426	> 1	> 1	> 1		0.000246	0.0052	0.175	> 1	> 1		1.48E-08	2.37E-07	8.00E-06	0.0002	0.00396		7.59E-11	8.42E-10	2.83E-08	7.09E-07	1.41E-05
	NRG1	1	48		0.0271	0.895	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
YPD stationary phase 12 h	*HAP4*	1	27	142	9.25E-05	0.00342	0.115	> 1	> 1	191	2.90E-08	7.97E-07	2.68E-05	0.000671	0.0133	297	1.53E-10	2.70E-09	9.09E-08	2.27E-06	4.51E-05	297	2.87E-13	5.07E-12	1.71E-10	4.27E-09	8.46E-08
	MSN2	1	21		0.0152	0.563	> 1	> 1	> 1		0.0357	0.98	> 1	> 1	> 1		0.00868	0.153	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00053	0.00937	0.316	> 1	> 1
YPD stationary phase 1 d ypd-1	*HAP4*	1	27	191	3.71E-06	0.000102	0.00344	0.086	> 1	230	2.42E-09	5.54E-08	1.87E-06	4.67E-05	0.000925	299	5.10E-12	8.96E-11	3.02E-09	7.55E-08	1.50E-06	395	4.30E-11	5.72E-10	1.93E-08	4.82E-07	9.56E-06
	SKN7	1	73		0.000659	0.0181	0.611	> 1	> 1		0.0223	0.509	> 1	> 1	> 1		0.0316	0.555	> 1	> 1	> 1		-	-	-	-	-
	GLN3	1	33		0.018	0.494	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.0005	0.0114	0.385	> 1	> 1		0.000333	0.00585	0.197	> 1	> 1		0.0134	0.179	> 1	> 1	> 1
	UME6	1	93		-	-	-	-	-		0.00779	0.178	> 1	> 1	> 1		0.00595	0.105	> 1	> 1	> 1		0.0446	0.593	> 1	> 1	> 1
	SKO1	1	6		-	-	-	-	-		0.0464	> 1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		-	-	-	-	-		0.00232	0.0408	> 1	> 1	> 1		0.0051	0.0678	> 1	> 1	> 1
	HAP1	1	45		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0148	0.197	> 1	> 1	> 1
YPD stationary phase 2 d ypd-1	*HAP4*	1	27	161	1.62E-06	5.27E-05	0.00178	0.0444	0.88	228	5.55E-08	1.28E-06	4.31E-05	0.00108	0.0214	295	2.91E-06	5.18E-05	0.00175	0.0437	0.865	391	0.0242	0.325	> 1	> 1	> 1
	SKN7	1	72		0.00106	0.0345	> 1	> 1	> 1		0.000988	0.0228	0.767	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HSF1	1	70		0.0108	0.354	> 1	> 1	> 1		0.000142	0.00328	0.111	> 1	> 1		-	-	-	-	-		0.0311	0.418	> 1	> 1	> 1
	SOK2	1	41		0.0211	0.688	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.00553	0.127	> 1	> 1	> 1		0.00741	0.132	> 1	> 1	> 1		0.013	0.174	> 1	> 1	> 1
	MSN2	1	21		-	-	-	-	-		0.0219	0.504	> 1	> 1	> 1		0.00989	0.176	> 1	> 1	> 1		0.00295	0.0397	> 1	> 1	> 1
	SUT1	1	15		-	-	-	-	-		0.0243	0.559	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	91		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0375	0.504	> 1	> 1	> 1
YPD stationary phase 3 d ypd-1	*HAP4*	1	27	164	0.000163	0.00522	0.176	> 1	> 1	226	6.30E-06	0.000147	0.00494	0.123	> 1	295	1.88E-06	3.35E-05	0.00113	0.0282	0.56	295	-	-	-	-	-
	MSN2	1	21		0.000703	0.0225	0.759	> 1	> 1		-	-	-	-	-		-	-	-	-	-		0.00757	0.135	> 1	> 1	> 1
	HSF1	1	70		0.0102	0.327	> 1	> 1	> 1		5.46E-05	0.00127	0.0428	> 1	> 1		0.00103	0.0184	0.618	> 1	> 1		0.0079	0.141	> 1	> 1	> 1
	SUT1	1	15		0.0255	0.818	> 1	> 1	> 1		0.00907	0.211	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SOK2	1	40		0.0303	0.971	> 1	> 1	> 1		0.0145	0.336	> 1	> 1	> 1		0.0306	0.545	> 1	> 1	> 1		-	-	-	-	-
	SKN7	1	72		-	-	-	-	-		0.0371	0.861	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	24		-	-	-	-	-		-	-	-	-	-		0.0177	0.316	> 1	> 1	> 1		0.0027	0.0481	> 1	> 1	> 1
YPD stationary phase 5 d ypd-1	*GAL4*	1	13	163	0.00148	0.0476	> 1	> 1	> 1	183	0.0251	0.72	> 1	> 1	> 1	293	-	-	-	-	-	293	-	-	-	-	-
	HAP4	1	27		0.0308	0.994	> 1	> 1	> 1		2.25E-05	0.000645	0.0217	0.544	> 1		0.0293	0.525	> 1	> 1	> 1		0.0102	0.182	> 1	> 1	> 1
	SUT1	1	15		-	-	-	-	-		0.0168	0.481	> 1	> 1	> 1		0.0267	0.479	> 1	> 1	> 1		0.00611	0.11	> 1	> 1	> 1
	HAP3	1	13		0.00148	0.0476	> 1	> 1	> 1		0.0251	0.72	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	92		-	-	-	-	-		-	-	-	-	-		0.0225	0.404	> 1	> 1	> 1		0.025	0.449	> 1	> 1	> 1
	PHD1	1	33		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00953	0.171	> 1	> 1	> 1
YPD stationary phase 7 d ypd-1	*GAL4*	1	14	163	0.00039	0.0126	0.424	> 1	> 1	231	-	-	-	-	-	290	-	-	-	-	-	290	-	-	-	-	-
	SOK2	1	40		0.00153	0.0494	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HAP4	1	26		0.0109	0.352	> 1	> 1	> 1		0.00192	0.0436	> 1	> 1	> 1		0.0078	0.141	> 1	> 1	> 1		-	-	-	-	-
	PHD1	1	32		-	-	-	-	-		0.0106	0.242	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	93		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00088	0.0159	0.537	> 1	> 1
YPD stationary	*UME6*	1	80	173	-	-	-	-	-	204	0.0373	0.96	> 1	> 1	> 1	254	0.00196	0.0405	> 1	> 1	> 1	345	0.0119	0.182	> 1	> 1	> 1
	SOK2	1	35		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0341	0.519	> 1	> 1	> 1
YPD stationary phase 22 d	*YAP7*	1	62	164	0.00361	0.116	> 1	> 1	> 1	229	0.0467	> 1	> 1	> 1	> 1	297	-	-	-	-	-	297	-	-	-	-	-
	MSN4	1	24		0.0271	0.868	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	UME6	1	92		0.0467	> 1	> 1	> 1	> 1		0.0029	0.0665	> 1	> 1	> 1		0.00242	0.0429	> 1	> 1	> 1		0.00303	0.0536	> 1	> 1	> 1
YPD stationary phase 28 d	*YAP7*	1	62	162	0.018	0.583	> 1	> 1	> 1	228	0.00511	0.118	> 1	> 1	> 1	292	-	-	-	-	-	292	-	-	-	-	-
	UME6	1	90		-	-	-	-	-		0.000638	0.0147	0.495	> 1	> 1		0.000867	0.0156	0.525	> 1	> 1		0.000673	0.0121	0.408	> 1	> 1
	SUT1	1	15		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0313	0.562	> 1	> 1	> 1
DBY7286 37degree heat - 20 min	*HSF1*	1	68	234	1.02E-13	2.28E-12	7.69E-11	1.92E-09	3.81E-08	303	2.39E-18	4.15E-17	1.40E-15	3.49E-14	6.93E-13	401	1.01E-15	1.32E-14	4.44E-13	1.11E-11	2.20E-10	401	6.63E-13	8.68E-12	2.92E-10	7.31E-09	1.45E-07
	RPN4	1	64		9.53E-10	2.14E-08	7.21E-07	1.80E-05	0.000357		0.000183	0.00317	0.107	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		4.12E-06	9.24E-05	0.00311	0.0779	> 1		1.73E-06	3.00E-05	0.00101	0.0253	0.5		0.00691	0.0906	> 1	> 1	> 1		-	-	-	-	-
	MSN4	1	24		0.000514	0.0115	0.389	> 1	> 1		-	-	-	-	-		-	-	-	-	-		0.0099	0.13	> 1	> 1	> 1
	NRG1	1	57		0.019	0.426	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	UME6	1	93		0.0316	0.71	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
DBYmsn2-4- 37degree heat - 20 min	*HSF1*	1	70	233	2.22E-14	5.00E-13	1.68E-11	4.21E-10	8.35E-09	398	6.38E-25	8.43E-24	2.84E-22	7.10E-21	1.41E-19	398	6.52E-25	8.60E-24	2.90E-22	7.25E-21	1.44E-19	548	2.98E-23	2.86E-22	9.62E-21	2.41E-19	4.77E-18
	RPN4	1	63		7.63E-14	1.72E-12	5.80E-11	1.45E-09	2.87E-08		1.93E-09	2.55E-08	8.59E-07	2.15E-05	0.000426		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		0.00289	0.0382	> 1	> 1	> 1		6.31E-06	8.33E-05	0.00281	0.0702	> 1		-	-	-	-	-
	RLM1	1	9		-	-	-	-	-		0.00572	0.0755	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AFT2, GCN4	2	3		-	-	-	-	-		0.0299	0.395	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	94		-	-	-	-	-		-	-	-	-	-		0.0305	0.402	> 1	> 1	> 1		-	-	-	-	-
DBYmsn2/4 (real strain) + 37degrees	*RPN4*	1	64	240	1.33E-11	2.91E-10	9.80E-09	2.45E-07	4.86E-06	405	2.61E-05	0.000338	0.0114	0.285	> 1	556	-	-	-	-	-	556	-	-	-	-	-
	HSF1	1	70		1.49E-08	3.26E-07	1.10E-05	0.000275	0.00545		1.29E-13	1.67E-12	5.64E-11	1.41E-09	2.79E-08		4.57E-12	4.32E-11	1.46E-09	3.64E-08	7.21E-07		1.11E-07	1.05E-06	3.54E-05	0.000885	0.0175
	CBF1, PHO2	2	4		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0213	0.202	> 1	> 1	> 1
DBYyap1- 37degree heat - 20 min (redo)	*HSF1*	1	69	234	2.02E-13	4.53E-12	1.53E-10	3.82E-09	7.57E-08	401	1.08E-17	1.41E-16	4.75E-15	1.19E-13	2.35E-12	401	5.48E-15	7.18E-14	2.42E-12	6.05E-11	1.20E-09	401	1.21E-12	1.59E-11	5.34E-10	1.34E-08	2.65E-07
	RPN4	1	64		7.39E-08	1.66E-06	5.59E-05	0.0014	0.0277		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		2.01E-06	4.51E-05	0.00152	0.038	0.753		4.16E-07	5.45E-06	0.000183	0.00459	0.091		0.000248	0.00325	0.11	> 1	> 1		0.00544	0.0713	> 1	> 1	> 1
	MSN4	1	24		0.00176	0.0395	> 1	> 1	> 1		0.00565	0.074	> 1	> 1	> 1		0.0105	0.138	> 1	> 1	> 1		0.011	0.144	> 1	> 1	> 1
	MOT3	1	12		0.00381	0.0856	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	72		0.00743	0.167	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	UME6	1	93		0.0237	0.532	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AFT2	1	57		0.024	0.539	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
DBYyap1 + 37degree heat (repeat)	*RPN4*	1	64	240	3.19E-11	6.99E-10	2.36E-08	5.89E-07	1.17E-05	405	-	-	-	-	-	405	-	-	-	-	-	555	-	-	-	-	-
	HSF1	1	70		5.98E-09	1.31E-07	4.41E-06	0.00011	0.00219		3.88E-13	5.03E-12	1.70E-10	4.24E-09	8.40E-08		3.00E-10	3.89E-09	1.31E-07	3.28E-06	6.50E-05		4.52E-11	4.28E-10	1.44E-08	3.60E-07	7.14E-06
	MSN2	1	21		0.00226	0.0494	> 1	> 1	> 1		0.00945	0.123	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	UME6	1	93		0.00457	0.1	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		0.0223	0.489	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
DBY7286 + 0.3 mM H2O2 (20 min)	*RPN4*	1	64	193	1.33E-09	3.63E-08	1.22E-06	3.06E-05	0.000607	304	1.65E-11	2.85E-10	9.59E-09	2.40E-07	4.75E-06	403	-	-	-	-	-	554	-	-	-	-	-
	YAP7	1	65		0.000115	0.00312	0.105	> 1	> 1		4.37E-06	7.56E-05	0.00255	0.0637	> 1		3.90E-10	5.08E-09	1.71E-07	4.28E-06	8.49E-05		0.00361	0.0342	> 1	> 1	> 1
	MSN4	1	25		0.0167	0.456	> 1	> 1	> 1		0.00136	0.0234	0.789	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	RCS1	1	27		-	-	-	-	-		0.00307	0.053	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.0193	0.333	> 1	> 1	> 1		0.00662	0.0863	> 1	> 1	> 1		0.0406	0.385	> 1	> 1	> 1
	YAP1	1	17		-	-	-	-	-		-	-	-	-	-		7.14E-05	0.000931	0.0314	0.785	> 1		-	-	-	-	-
DBYmsn2msn4 (good strain) + 0.32 mM H2O2	*YAP7*	1	65	237	1.37E-12	3.04E-11	1.02E-09	2.56E-08	5.08E-07	299	6.05E-16	1.06E-14	3.58E-13	8.96E-12	1.77E-10	402	1.19E-12	1.55E-11	5.24E-10	1.31E-08	2.60E-07	402	8.38E-10	1.10E-08	3.69E-07	9.23E-06	0.000183
	RPN4	1	63		2.61E-08	5.79E-07	1.95E-05	0.000488	0.00966		4.57E-13	8.04E-12	2.71E-10	6.77E-09	1.34E-07		0.039	0.509	> 1	> 1	> 1		-	-	-	-	-
	GCN4	1	126		0.00217	0.0482	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HSF1	1	69		0.00669	0.148	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4, NRG1	2	5		0.0448	0.993	> 1	> 1	> 1		-	-	-	-	-		0.0489	0.638	> 1	> 1	> 1		0.00975	0.127	> 1	> 1	> 1
	YAP1	1	17		0.0469	> 1	> 1	> 1	> 1		3.10E-05	0.000544	0.0183	0.458	> 1		2.14E-05	0.00028	0.00943	0.236	> 1		4.88E-07	6.38E-06	0.000215	0.00537	0.107
DBYmsn2/4 (real strain) + 0.32 mM H2O2 (20 min)	*RPN4*	1	64	240	6.46E-13	1.41E-11	4.76E-10	1.19E-08	2.36E-07	405	1.68E-06	2.18E-05	0.000736	0.0184	0.365	405	-	-	-	-	-	556	-	-	-	-	-
	YAP7	1	65		1.32E-12	2.89E-11	9.74E-10	2.44E-08	4.83E-07		3.49E-10	4.52E-09	1.52E-07	3.81E-06	7.55E-05		8.73E-11	1.13E-09	3.82E-08	9.54E-07	1.89E-05		1.83E-09	1.73E-08	5.84E-07	1.46E-05	0.000289
	HSF1	1	70		0.000269	0.00588	0.198	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		0.0167	0.366	> 1	> 1	> 1		0.00017	0.00221	0.0744	> 1	> 1		0.00347	0.045	> 1	> 1	> 1		0.000454	0.00429	0.145	> 1	> 1
	MSN4	1	25		-	-	-	-	-		0.00541	0.0702	> 1	> 1	> 1		0.00152	0.0197	0.664	> 1	> 1		-	-	-	-	-
	MSN4, NRG1	2	5		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0072	0.068	> 1	> 1	> 1

DBYyap1- + 0.3 mM H2O2 (20 min)	*RPN4*	1	64	193	2.21E-08	6.02E-07	2.03E-05	0.000507	0.01	304	4.40E-13	7.60E-12	2.56E-10	6.40E-09	1.27E-07	403	-	-	-	-	-	403	-	-	-	-	-
	GCN4	1	128		6.97E-06	0.00019	0.00639	0.16	> 1		0.0102	0.176	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HAP4	1	27		0.00308	0.0839	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HSF1	1	70		0.0154	0.418	> 1	> 1	> 1		0.0108	0.186	> 1	> 1	> 1		-	-	-	-	-		0.00356	0.0464	> 1	> 1	> 1
	MSN2	1	21		-	-	-	-	-		0.000605	0.0105	0.352	> 1	> 1		0.0441	0.574	> 1	> 1	> 1		0.000964	0.0126	0.423	> 1	> 1
	MSN4	1	25		-	-	-	-	-		0.03	0.519	> 1	> 1	> 1		0.00116	0.0152	0.511	> 1	> 1		0.0457	0.595	> 1	> 1	> 1
DBYyap1 + 0.32 mM H2O2 (20 min)	*RPN4*	1	64	196	0.000191	0.00511	0.172	> 1	> 1	304	-	-	-	-	-	402	-	-	-	-	-	402	-	-	-	-	-
	HSF1	1	70		0.000208	0.00559	0.188	> 1	> 1		5.11E-06	8.83E-05	0.00297	0.0744	> 1		1.96E-05	0.000256	0.00861	0.215	> 1		0.000478	0.00624	0.21	> 1	> 1
	MSN4	1	25		0.00176	0.0471	> 1	> 1	> 1		0.000325	0.00561	0.189	> 1	> 1		0.00332	0.0434	> 1	> 1	> 1		0.000786	0.0103	0.346	> 1	> 1
	MSN2	1	21		-	-	-	-	-		0.0232	0.401	> 1	> 1	> 1		0.00923	0.121	> 1	> 1	> 1		-	-	-	-	-
Msn2 overexpression (repeat)	*MSN4*	1	25	405	-	-	-	-	-	405	0.0138	0.179	> 1	> 1	> 1	556	0.0135	0.127	> 1	> 1	> 1	556	-	-	-	-	-
Msn4 overexpression	*MSN2*	1	21	306	0.00224	0.0385	> 1	> 1	> 1	405	0.00112	0.0146	0.491	> 1	> 1	405	0.00321	0.0417	> 1	> 1	> 1	556	-	-	-	-	-
	HSF1	1	70		-	-	-	-	-		0.000845	0.011	0.369	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.0475	0.616	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
YAP1 overexpression	*YAP7*	1	65	239	5.16E-07	1.14E-05	0.000382	0.00957	0.19	403	8.57E-08	1.12E-06	3.76E-05	0.000941	0.0186	554	0.000755	0.00716	0.241	> 1	> 1	554	-	-	-	-	-
	HSF1	1	69		0.000765	0.0168	0.566	> 1	> 1		0.0207	0.269	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP1	1	17		-	-	-	-	-		0.00537	0.07	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
ethanol vs. reference pool car-1	*HAP4*	1	26	194	8.21E-07	2.22E-05	0.000749	0.0187	0.371	304	0.000925	0.016	0.538	> 1	> 1	401	-	-	-	-	-	550	-	-	-	-	-
	SOK2	1	38		0.00403	0.109	> 1	> 1	> 1		0.000145	0.0025	0.0843	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		0.0247	0.668	> 1	> 1	> 1		0.002	0.0345	> 1	> 1	> 1		0.043	0.564	> 1	> 1	> 1		-	-	-	-	-
	SUT1	1	16		0.0361	0.977	> 1	> 1	> 1		0.0112	0.193	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		-	-	-	-	-		0.0209	0.361	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SKO1	1	5		-	-	-	-	-		0.0277	0.479	> 1	> 1	> 1		0.0335	0.438	> 1	> 1	> 1		-	-	-	-	-
	UME6	1	92		-	-	-	-	-		0.0286	0.494	> 1	> 1	> 1		0.00678	0.0889	> 1	> 1	> 1		0.0346	0.33	> 1	> 1	> 1
	CBF1, PHO2	2	4		-	-	-	-	-		-	-	-	-	-		0.0136	0.178	> 1	> 1	> 1		-	-	-	-	-
	ABF1, CBF1	2	12		-	-	-	-	-		-	-	-	-	-		0.0303	0.396	> 1	> 1	> 1		-	-	-	-	-
galactose vs. reference pool car-1	*HAP4*	1	25	299	0.0004	0.00702	0.236	> 1	> 1	400	-	-	-	-	-	547	-	-	-	-	-	547	-	-	-	-	-
	GAL4	1	14		0.00176	0.0309	> 1	> 1	> 1		2.04E-07	2.67E-06	9.01E-05	0.00225	0.0447		7.03E-08	6.75E-07	2.27E-05	0.000569	0.0113		1.40E-05	0.000135	0.00453	0.113	> 1
	MSN4	1	24		0.0123	0.216	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN2	1	21		0.0185	0.326	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
glucose vs. reference pool car-1	*ABF1*	1	202	195	0.00211	0.0568	> 1	> 1	> 1	306	-	-	-	-	-	402	-	-	-	-	-	555	-	-	-	-	-
mannose vs. reference pool car-1	-	-	-	233	-	-	-	-	-	394	-	-	-	-	-	547	-	-	-	-	-	547	-	-	-	-	
raffinose vs. reference pool car-1	*HAP4*	1	26	235	0.000106	0.00237	0.0797	> 1	> 1	401	-	-	-	-	-	550	-	-	-	-	-	550	-	-	-	-	-
sucrose vs. reference pool car-1	-	-	-	235	-	-	-	-	-	402	-	-	-	-	-	549	-	-	-	-	-	549	-	-	-	-	
YP ethanol vs reference pool car-2	*HAP4*	1	27	191	2.80E-06	7.69E-05	0.00259	0.0648	> 1	300	1.88E-07	3.29E-06	0.000111	0.00277	0.0549	395	0.00412	0.0548	> 1	> 1	> 1	548	-	-	-	-	-
	AFT2	1	58		0.000149	0.00409	0.138	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RCS1	1	27		2.80E-06	7.69E-05	0.00259	0.0648	> 1		1.88E-07	3.29E-06	0.000111	0.00277	0.0549		0.00412	0.0548	> 1	> 1	> 1		-	-	-	-	-
	SUT1	1	15		0.00194	0.0532	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SKN7	1	73		0.0107	0.293	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SOK2	1	41		0.0182	0.5	> 1	> 1	> 1		0.00409	0.0716	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CIN5	1	52		0.0281	0.772	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	UME6	1	94		-	-	-	-	-		8.06E-05	0.00141	0.0476	> 1	> 1		0.00501	0.0667	> 1	> 1	> 1		-	-	-	-	-
	MSN2	1	21		-	-	-	-	-		0.00364	0.0637	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MOT3	1	13		-	-	-	-	-		0.0131	0.229	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CBF1, PHO2	2	4		-	-	-	-	-		-	-	-	-	-		0.0114	0.151	> 1	> 1	> 1		-	-	-	-	-
YP fructose vs reference	*FHL1*	1	87	305	4.62E-24	7.96E-23	2.68E-21	6.71E-20	1.33E-18	555	0.00211	0.02	0.672	> 1	> 1	555	-	-	-	-	-	-	-	-	-	-	-
	SFP1	1	20		0.000492	0.00847	0.285	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
YP galactose vs reference	*GAL4*	1	14	300	3.72E-09	6.52E-08	2.20E-06	5.49E-05	0.00109	395	2.08E-12	2.77E-11	9.33E-10	2.33E-08	4.62E-07	548	1.25E-06	1.19E-05	0.000402	0.0101	0.199	548	2.01E-06	1.92E-05	0.000648	0.0162	0.321
	HAP4	1	27		0.000156	0.00273	0.0919	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
YP glucose vs reference pool car-2	*FHL1*	1	88	237	7.91E-06	0.000175	0.00591	0.148	> 1	402	4.38E-05	0.000572	0.0193	0.482	> 1	555	-	-	-	-	-	555	-	-	-	-	-
YP mannose vs reference pool car-2	-	-	-	234	-	-	-	-	-	400	-	-	-	-	-	553	-	-	-	-	-	553	-	-	-	-	
YP raffinose vs reference pool car-2	*HAP4*	1	27	230	7.82E-08	1.79E-06	6.01E-05	0.0015	0.0298	394	7.51E-15	1.00E-13	3.37E-12	8.44E-11	1.67E-09	548	0.00143	0.0137	0.461	> 1	> 1	548	-	-	-	-	-
	HAP1	1	45		-	-	-	-	-		0.0125	0.166	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HAP1, HAP2, HAP3, HAP5	4	2		-	-	-	-	-		-	-	-	-	-		0.00754	-	-	> 1	> 1		-	-	-	-	-
YP sucrose vs reference pool car-2	*FHL1*	1	88	299	2.71E-13	4.77E-12	1.61E-10	4.02E-09	7.97E-08	547	-	-	-	-	-	547	-	-	-	-	-	-	-	-	-	-	-
	RAP1	1	79		4.61E-07	8.10E-06	0.000273	0.00683	0.135		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SFP1	1	20		0.00268	0.0471	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
17 deg growth ct-1	*FHL1*	1	88	237	0.0119	0.264	> 1	> 1	> 1	401	-	-	-	-	-	553	-	-	-	-	-	553	-	-	-	-	-
	PHO4	1	24		-	-	-	-	-		0.0253	0.331	> 1	> 1	> 1		-	-	-	-	-		0.0133	0.126	> 1	> 1	> 1
	CBF1, PHO2	2	4		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0189	0.179	> 1	> 1	> 1
21 deg growth ct-1	*RCS1*	1	27	306	0.00509	0.0874	> 1	> 1	> 1	402	0.0175	0.229	> 1	> 1	> 1	555	-	-	-	-	-	555	-	-	-	-	-
25 deg growth ct-1	*SOK2, CIN5, SKN7*	3	5	306	0.0327	-	> 1	> 1	> 1	555	-	-	-	-	-	555	-	-	-	-	-	555	-	-	-	-	-
29 deg growth ct-1	*FHL1*	1	88	405	6.89E-12	8.94E-11	3.01E-09	7.53E-08	1.49E-06	556	-	-	-	-	-	556	-	-	-	-	-	556	-	-	-	-	-
	SFP1	1	20		0.0178	0.231	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
37 deg growth ct-1	*MSN2*	1	21	306	0.0153	0.263	> 1	> 1	> 1	402	0.019	0.248	> 1	> 1	> 1	555	-	-	-	-	-	555	-	-	-	-	-
	HAP4	1	26		0.0178	0.305	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSN4	1	25		-	-	-	-	-		0.00302	0.0394	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	YAP7	1	65		-	-	-	-	-		0.0163	0.213	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
steady state 15 dec C ct-2	*HSF1*	1	69	302	1.99E-05	0.000346	0.0117	0.292	> 1	401	-	-	-	-	-	552	-	-	-	-	-	552	-	-	-	-	-
	FKH2, MBP1	2	12		0.013	0.226	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
steady state 17 dec C ct-2	*FHL1*	1	88	239	9.00E-06	0.000198	0.00666	0.167	> 1	404	-	-	-	-	-	552	-	-	-	-	-	552	-	-	-	-	-
	SFP1	1	20		0.00852	0.187	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
steady state 21 dec C ct-2	*FHL1*	1	87	306	2.11E-22	3.63E-21	1.22E-19	3.05E-18	6.05E-17	555	2.89E-07	2.73E-06	9.20E-05	0.0023	0.0456	555	-	-	-	-	-	702	-	-	-	-	-
	SFP1	1	20		3.97E-05	0.000681	0.023	0.574	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
steady state 25 dec C ct-2	*FHL1*	1	87	405	2.09E-16	2.71E-15	9.12E-14	2.28E-12	4.52E-11	554	-	-	-	-	-	554	-	-	-	-	-	554	-	-	-	-	-
	SFP1	1	20		8.47E-05	0.0011	0.037	0.925	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

steady state 29 dec C ct-2	*FHL1*	1	87	405	8.68E-12	1.13E-10	3.79E-09	9.49E-08	1.88E-06	554	-	-	-	-	-	554	-	-	-	-	-	702	-	-	-	-	-
steady state 33 dec C ct-2	*GCN4*	1	127	306	0.0134	0.229	> 1	> 1	> 1	405	-	-	-	-	-	555	-	-	-	-	-	555	-	-	-	-	-
	BAS1	1	24		0.0158	0.272	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
steady state 36 dec C ct-2	*HSF1*	1	70	302	0.00923	0.161	> 1	> 1	> 1	401	-	-	-	-	-	548	-	-	-	-	-	548	-	-	-	-	-
	SKO1	1	6		0.00972	0.169	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
steady state 36 dec C ct-2	*HSF1*	1	60	274	0.000304	0.00583	0.197	> 1	> 1	372	-	-	-	-	-	514	-	-	-	-	-	514	-	-	-	-	-
	MSN2	1	19		0.046	0.882	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

B. EGF (human breast cancer cell)

Condition	Motif Combination	Arity	# of target genes	Adjusted *p*-value (exp > 0.5)						Adjusted p-value (exp > 1.0)						Adjusted p-value (exp > 1.5)						Adjusted p-value (exp > 2.0)					
				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni			
				m'		Arity limit 2 m=79,003	3 10,428,793	4 1,029,883,108	5 8.12E+10	m'		Arity limit 2 m=79,003	3 10,428,793	4 1,029,883,108	5 8.12E+10	m'		Arity limit 2 m=79,003	3 10,428,793	4 1,029,883,108	5 8.12E+10	m'		Arity limit 2 m=79,003	3 10,428,793	4 1,029,883,108	5 8.12E+10
0.1nM 5min	*TATA*	1	957	1459869	0.00389	2.10E-04	0.0278	> 1	> 1	3750336	0.000511	1.08E-05	0.00142	0.14	> 1	5238103	2.26E-06	3.41E-08	4.51E-06	0.000445	0.0351	7247034	0.000123	1.34E-06	0.000176	0.0174	> 1
	MEIS1, LMO2COM, AR	3	14		0.03	-	0.214	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GATA6	1	160		0.49	0.0265	> 1	> 1	> 1		-	-	-	-	-		0.0237	0.000357	0.0472	> 1	> 1		-	-	-	-	-
	CTGYNNCTYTAA, TGACATY	2	12		-	-	-	-	-		1.03	0.0217	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEF2, AACTTT	2	198		-	-	-	-	-		-	-	-	-	-		1.59	0.024	> 1	> 1	> 1		-	-	-	-	-
	RSRFC4, IK1	2	26		-	-	-	-	-		-	-	-	-	-		1.77	0.0266	> 1	> 1	> 1		0.376	0.0041	0.541	> 1	> 1
0.1nM 10min	*TATA*	1	957	1459869	-	-	-	-	-	3750336	-	-	-	-	-	5238103	0.175	0.00264	0.349	> 1	> 1	7247034	-	-	-	-	-
0.1nM 15min	*TATA*	1	957	1459869	-	-	-	-	-	3750336	1.1	0.0232	> 1	> 1	> 1	5238103	-	-	-	-	-	7247034	-	-	-	-	-
0.1nM 30min	*CTGCAGY, LEF1, VDR, MAZ*	4	28	1459869	0.0177	-	-	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		0.877	0.0475	> 1	> 1	> 1		0.000437	9.21E-06	0.00122	0.12	> 1		0.0041	6.19E-05	0.00816	0.806	> 1		0.284	0.00309	0.409	> 1	> 1
	AACTTT, CART1	2	71		-	-	-	-	-		0.000791	1.67E-05	0.0022	0.217	> 1		0.326	0.00492	0.649	> 1	> 1		-	-	-	-	-
	CP2, CTGCAGY, LEF1, MAZ, STAT5A	5	9		-	-	-	-	-		0.00157	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	CP2, CTGCAGY, LEF1, MAZ, AACTTT	5	18		-	-	-	-	-		0.0127	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	CP2, CTGCAGY, AACTTT, LEF1, CTTTAAR	5	10		-	-	-	-	-		0.0144	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, NFAT	2	115		-	-	-	-	-		0.0804	0.00169	0.223	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AAAYRNCTG, CART1	2	18		-	-	-	-	-		-	-	-	-	-		1	0.0151	> 1	> 1	> 1		-	-	-	-	-
	AAAYRNCTG, NKX61	2	19		-	-	-	-	-		-	-	-	-	-		1.81	0.0272	> 1	> 1	> 1		-	-	-	-	-
	MEF2, GATA6	2	38		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.13	0.0341	> 1	> 1	> 1
0.1nM 45min	-	-	-	1969633	-	-	-	-	-	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	
0.1nM 60min	*NFAT, AACTTT*	2	425	1969633	0.423	0.017	> 1	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		0.619	0.0248	> 1	> 1	> 1		0.395	0.00832	> 1	> 1	> 1		0.109	0.00165	0.218	> 1	> 1		-	-	-	-	-
0.1nM 90min	*SRF, FREAC3*	2	16	1969633	0.954	0.0383	> 1	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
0.5nM 5min	*AACTTT, CART1*	2	71	1459869	-	-	-	-	-	3750336	0.421	0.00887	> 1	> 1	> 1	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	E12, AACTTT	2	401		-	-	-	-	-		1.7	0.0358	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		-	-	-	-	-		0.0603	0.000909	0.12	> 1	> 1		0.348	0.00379	0.501	> 1	> 1
	CTGCAGY, OCT1, PAX4, MSX1, AACTTT	5	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0398	-	-	-	> 1
0.5nM 10min	*NFAT, AACTTT*	2	425	1459869	0.409	0.0221	> 1	> 1	> 1	3750336	0.0802	0.00169	0.223	> 1	> 1	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		-	-	-	-	-		0.00066	1.39E-05	0.00184	0.181	> 1		0.0595	0.000898	0.119	> 1	> 1		1.83	0.02	> 1	> 1	> 1
	WWTAAGGC, NF1	2	27		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.125	0.00136	0.18	> 1	> 1
0.5nM 15min	*TATA*	1	957	1969633	0.194	0.00776	> 1	> 1	> 1	3750336	0.00139	2.93E-05	0.00387	0.382	> 1	5238103	0.00112	1.69E-05	0.00224	0.221	> 1	7247034	0.134	0.00146	0.192	> 1	> 1
	GATA6, CREB	2	15		0.453	0.0182	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GR, EVI1, CTTTAAR, LEF1, OCT1, NFAT, FOXO4, CEBP	8	8		-	-	-	-	-		0.0137	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GATA6, FOXO4	2	63		-	-	-	-	-		0.904	0.019	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEF2, E12, TGACATY, OCT1, AP1	5	13		-	-	-	-	-		-	-	-	-	-		0.0198	-	-	-	> 1		-	-	-	-	-
	GATA6, PIT1	2	11		-	-	-	-	-		-	-	-	-	-		2.84	0.0428	> 1	> 1	> 1		-	-	-	-	-
0.5nM 30min	*NFAT, AACTTT*	2	425	1459869	0.042	0.00227	0.3	> 1	> 1	2700718	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		0.155	0.00838	> 1	> 1	> 1		0.00211	6.18E-05	0.00816	0.805	> 1		-	-	-	-	-		-	-	-	-	-
	NFAT, AREB6	2	288		0.156	0.00847	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12	1	1491		0.65	0.0352	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
0.5nM 45min	*FOXO4, SRF*	2	100	1969633	0.000403	1.62E-05	0.00213	0.211	> 1	3750336	0.0223	0.00047	0.062	> 1	> 1	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	YY1, SRF, AACTTT	3	23		0.00534	-	0.0283	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HFH8, E4F1, CREB	3	11		0.00646	-	0.0342	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SRF, HNF3	2	54		0.0455	0.00183	0.241	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SRF, FREAC2	2	65		0.08	0.00321	0.424	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, AACTTT	2	425		0.278	0.0112	> 1	> 1	> 1		0.00138	2.90E-05	0.00383	0.378	> 1		-	-	-	-	-		-	-	-	-	-
	SRF, ATF, AACTTT	3	16		-	-	-	-	-		0.00113	-	0.00314	0.31	> 1		-	-	-	-	-		-	-	-	-	-
	YY1, SRF, NFKB, AACTTT	4	9		-	-	-	-	-		0.00127	-	-	0.348	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		0.00405	8.53E-05	0.0113	> 1	> 1		0.000145	2.19E-06	0.000289	0.0286	> 1		-	-	-	-	-
	GATA6	1	160		-	-	-	-	-		0.0504	0.00106	0.14	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NFAT, CART1	2	62		-	-	-	-	-		0.744	0.0157	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NF1, E2F	2	57		-	-	-	-	-		0.836	0.0176	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
0.5nM 60min	*CTGCAGY, LEF1, CREB, AREB6, AACTTT*	5	15	1969633	0.000776	-	-	-	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	LEF1, E12, CREB, AACTTT	4	35		0.008	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, NFAT, CREB	3	62		0.0142	-	0.0753	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	LEF1, MYOD, CREB, AACTTT	4	21		0.0159	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, MYOD, CREB, ATF3	4	31		0.0214	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		0.0429	0.000904	0.119	> 1	> 1		0.159	0.0024	0.317	> 1	> 1		0.57	0.00621	0.82	> 1	> 1

0.5nM 90min	*LEF1, CTGCAGY, TATA, VDR, MAZ*	5	9	1969633	-	-	-	-	-	3750336	0.0457	-	-	-	> 1	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	MYC, TATA, CREB, CREBP1, FOXO4	5	7		-	-	-	-	-		-	-	-	-	-		0.00345	-	-	-	> 1		-	-	-	-	-
	E12, AACTTT, LEF1, TATA, OCT1, NFAT, CREB	7	8		-	-	-	-	-		-	-	-	-	-		0.0264	-	-	-	-		-	-	-	-	-
1.0nM 5min	*TATA*	1	957	1459869	-	-	-	-	-	3750336	0.0181	0.00038	0.0502	> 1	> 1	5238103	0.000195	2.94E-06	0.000388	0.0384	> 1	7247034	0.026	0.000283	0.0374	> 1	> 1
	AACTTT, CART1	2	71		-	-	-	-	-		-	-	-	-	-		0.102	0.00154	0.204	> 1	> 1		0.323	0.00352	0.465	> 1	> 1
	NFAT, CART1	2	62		-	-	-	-	-		-	-	-	-	-		2.33	0.0351	> 1	> 1	> 1		-	-	-	-	-
1.0nM 10min	*YY1, LEF1, NF1, NFAT*	4	26	1459869	0.015	-	-	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	CRX, AACTTT	2	69		0.0268	0.00145	0.192	> 1	> 1		0.216	0.00455	0.601	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, AACTTT	2	401		0.0577	0.00312	0.412	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, AACTTT	2	425		0.0613	0.00332	0.438	> 1	> 1		2.01	0.0424	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AREB6, AACTTT	2	274		0.483	0.0262	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		0.411	0.00865	> 1	> 1	> 1		0.0522	0.000787	0.104	> 1	> 1		-	-	-	-	-
	AACTTT, CART1	2	71		-	-	-	-	-		1.77	0.0373	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	FOXO4, TAAYNRNNTCC	2	44		-	-	-	-	-		-	-	-	-	-		1.7	0.0257	> 1	> 1	> 1		-	-	-	-	-
1.0nM 15min	*NFAT, AACTTT*	2	425	1459869	0.00601	0.000325	0.0429	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		0.282	0.0153	> 1	> 1	> 1		0.0149	0.000313	0.0413	> 1	> 1		0.0245	0.00037	0.0488	> 1	> 1		0.101	0.0011	0.145	> 1	> 1
	FOXO3, HNF3	2	51		0.595	0.0322	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HFH8, GATA6	2	10		-	-	-	-	-		-	-	-	-	-		2.25	0.0339	> 1	> 1	> 1		-	-	-	-	-
	CTGYNNCTYTAA, AACTTT	2	19		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.67	0.04	> 1	> 1	> 1
1.0nM 30min	*NFAT, AREB6, AACTTT*	3	138	1459869	0.0206	-	0.147	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	TATA	1	957		0.0757	0.00409	0.54	> 1	> 1		0.0319	0.000672	0.0887	> 1	> 1		0.00233	3.52E-05	0.00465	0.459	> 1		-	-	-	-	-
	ATF6, CTTTAAR	2	16		0.217	0.0117	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	ATF6, SP1	2	40		0.723	0.0391	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	LEF1, CDPCR3HD, OCT1, MSX1, AACTTT	5	8		-	-	-	-	-		0.0401	-	-	-	> 1		-	-	-	-	-		0.0087	-	-	-	> 1
	YNGTTNNNATT, AACTTT	2	100		-	-	-	-	-		0.383	0.00807	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NFAT, AACTTT	2	425		-	-	-	-	-		0.411	0.00867	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, NFAT	2	115		-	-	-	-	-		0.873	0.0184	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	LEF1, NFAT	2	497		-	-	-	-	-		1.35	0.0285	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SREBP1, MSX1	2	27		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		4.29	0.0468	> 1	> 1	> 1
1.0nM 45min	*HFH4, NFAT, E4F1, AACTTT*	4	11	1459869	0.0173	-	-	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	CTGCAGY, LEF1, AREB6, AACTTT	4	51		0.0175	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YY1, NF1, NFAT, AACTTT	4	23		0.0251	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TATA, OCT1, CREB, NFAT, AACTTT	5	15		0.0445	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	YY1, CHX10, NFAT, AACTTT	4	17		0.045	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SRF, HNF3	2	54		0.0918	0.00497	0.656	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AACTTT, CART1	2	71		0.708	0.0383	> 1	> 1	> 1		0.00375	7.89E-05	0.0104	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEIS1, LEF1, NFAT, NKX62	4	23		-	-	-	-	-		0.00895	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	TATA, OCT1, NFAT, AACTTT	4	74		-	-	-	-	-		0.0105	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEIS1, NFAT, AACTTT	3	97		-	-	-	-	-		0.0209	-	0.0581	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NFAT, CART1	2	62		-	-	-	-	-		0.0259	0.000545	0.0719	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	IRF7, PPAR	2	8		-	-	-	-	-		0.0307	0.000647	0.0854	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEF2, CIZ	2	32		-	-	-	-	-		0.28	0.00591	0.78	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	IK3, AACTTT	2	57		-	-	-	-	-		0.726	0.0153	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HFH4, CREB	2	23		-	-	-	-	-		1.32	0.0278	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, PPAR	2	55		-	-	-	-	-		1.94	0.0408	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		-	-	-	-	-		0.0791	0.00119	0.157	> 1	> 1		-	-	-	-	-
	NFAT, AACTTT, LEF1, CHX10, LHX3, STAT5A, STAT5B	7	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0184	-	-	-	-
1.0nM 60min	*MAZ, E12, CREB, ATF4*	4	15	1969633	0.0007	-	-	0.366	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	CTGCAGY, LEF1, PAX4, AREB6, AACTTT	5	29		0.0304	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MEIS1, NFAT, FREAC2	3	64		0.0312	-	0.165	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, STAT5A, AACTTT	3	106		0.0486	-	0.257	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	LEF1, NFAT	2	497		1.13	0.0453	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	LEF1, TATA, NFAT, NFKB, AACTTT	5	20		-	-	-	-	-		0.00725	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	EVI1, MEF2, LEF1, TATA, SREBP1, NFAT, FOXO4	7	10		-	-	-	-	-		0.0207	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PTF1BETA, LEF1, NFAT, CREB, AACTTT	5	8		-	-	-	-	-		0.024	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	MEF2, LEF1, POU6F1, FOXO4, AR	5	8		-	-	-	-	-		0.024	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-

	TCCATTKW, AACTTT, TATA, NFAT, CART1	5	8		-	-	-	-	-		0.024	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	LEF1, NFAT, STAT5A, AACTTT	4	75		-	-	-	-	-		0.0387	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, LEF1, NFAT, NFKB, STAT5A	5	13		-	-	-	-	-		0.0465	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	IRF7, PPAR	2	8		-	-	-	-	-		1.87	0.0393	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		-	-	-	-	-		0.00251	3.79E-05	0.005	0.494	> 1		-	-	-	-	-
	OCT, OCT1, NFAT	3	90		-	-	-	-	-		-	-	-	-	-		0.0255	-	0.0507	> 1	> 1		-	-	-	-	-
	MEF2, PAX4, AFP1	3	29		-	-	-	-	-		-	-	-	-	-		0.0307	-	0.061	> 1	> 1		-	-	-	-	-
	MEF2, FOXO4	2	219		-	-	-	-	-		-	-	-	-	-		1.55	0.0234	> 1	> 1	> 1		-	-	-	-	-
	NFKB, AACTTT, LEF1, TATA, NFAT, STAT5A	6	10		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00302	-	-	-	-
	MEF2, PAX4, TATA, SREBP1, NFAT	5	18		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00407	-	-	-	> 1
	MEF2, LEF1, FOXO4, PAX4, AFP1	5	18		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.00407	-	-	-	> 1
	NFKB, AACTTT, LEF1, E12, NFAT, STAT5A	6	11		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0107	-	-	-	-
	LEF1, OCT1, FOXO4, PPAR	4	15		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0121	-	-	> 1	> 1
	AACTTT, CP2, LEF1, TATA, CTGCAGY, PAX4	6	8		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0133	-	-	-	-
	MEF2, TATA, AACTTT	3	79		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0269	-	0.0387	> 1	> 1
	TCCATTKW, TATA, PAX4, NFAT, STAT5A	5	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0308	-	-	-	> 1
	OCT, LEF1, OCT1, NFAT	4	63		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.037	-	-	> 1	> 1
	AREB6, CP2, CTGCAGY, CEBP, MAZ, NFY	6	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0412	-	-	-	-
	OCT1, CART1, HFH4, TGACATY, TATA, NFAT, AACTTT, LEF1	8	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0412	-	-	-	-
	CP2, PIT1, TATA, CTGCAGY, AREB6	5	6		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0412	-	-	-	> 1
	MEF2, IK1	2	34		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.619	0.00674	0.89	> 1	> 1
	IK2	1	175		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.676	0.00737	0.973	> 1	> 1
	RSRFC4, PPAR	2	13		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		2.37	0.0259	> 1	> 1	> 1
	AACTTT, PPAR	2	55		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		2.56	0.0279	> 1	> 1	> 1
	GATA6, LEF1	2	75		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.36	0.0366	> 1	> 1	> 1
	OCT, AREB6	2	86		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.94	0.043	> 1	> 1	> 1
	HFH4, PPAR	2	14		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		4.57	0.0498	> 1	> 1	> 1
1.0nM 90min	*E4F1, MAZ, ATF*	3	41	1459869	0.0344	-	0.246	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	CTGCAGY, LEF1, CREB, MAZ, AACTTT	5	17		0.0437	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	ATF6, PAX4	2	34		0.0704	0.00381	0.503	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, AACTTT	2	425		0.0763	0.00413	0.545	> 1	> 1		2.28	0.048	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	ATF, ATF4	2	59		0.233	0.0126	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	FOXO4, ATF	2	67		0.495	0.0268	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		0.607	0.0329	> 1	> 1	> 1		4.44E-05	9.35E-07	0.000123	0.0122	0.961		0.00362	5.46E-05	0.0072	0.711	> 1		0.128	0.0014	0.184	> 1	> 1
	MYOD, ATF	2	49		0.67	0.0362	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	OCT, OCT1, NFAT	3	90		-	-	-	-	-		0.014	-	0.039	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, CART1	2	71		-	-	-	-	-		2.28	0.0481	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	GATA1, NRSF	2	7		-	-	-	-	-		-	-	-	-	-		2.2	0.0332	> 1	> 1	> 1		-	-	-	-	-
	TEF1, RSRFC4	2	32		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		1.6	0.0174	> 1	> 1	> 1
10.0nM 5min	*TATA*	1	957	1969633	0.00346	0.000139	0.0183	> 1	> 1	3750336	0.000382	8.05E-06	0.00106	0.105	> 1	5238103	0.0496	0.000749	0.0989	> 1	> 1	7247034	-	-	-	-	-
	PAX2, TAL1BETAITF2	2	16		0.429	0.0172	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AACTTT, CART1	2	71		0.633	0.0254	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
10.0nM 10min	*TATA*	1	957	1969633	6.82E-06	2.74E-07	3.61E-05	0.00357	0.281	3750336	0.000743	1.57E-05	0.00207	0.204	> 1	5238103	2.14E-05	3.22E-07	4.25E-05	0.0042	0.331	7247034	0.000478	5.21E-06	0.000687	0.0679	> 1
	GATA6	1	160		0.721	0.0289	> 1	> 1	> 1		0.897	0.0189	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, LEF1, OCT1, CHX10, MAZ, CDPCR3HD, MSX1	7	7		-	-	-	-	-		-	-	-	-	-		0.0298	-	-	-	-		0.00212	-	-	-	-
	NFAT, AACTTT	2	425		-	-	-	-	-		-	-	-	-	-		1.49	0.0224	> 1	> 1	> 1		-	-	-	-	-
10.0nM 15min	*TATA*	1	957	1969633	7.60E-06	3.05E-07	4.02E-05	0.00397	0.313	3750336	3.87E-07	8.16E-09	1.08E-06	0.000106	0.00838	5238103	0.000107	1.62E-06	0.000214	0.0211	> 1	7247034	0.0162	0.000177	0.0234	> 1	> 1
	NFAT, FOXO4, AACTTT	3	224		3.31E-05	-	0.000175	0.0173	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, FREAC2, STAT5A, AACTTT	4	51		9.00E-05	-	-	0.047	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	RSRFC4	1	340		0.000164	6.57E-06	0.000867	0.0856	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CEBP, NFAT, AACTTT	3	137		0.000214	-	0.00113	0.112	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	GATA6, AACTTT	2	69		0.0591	0.00237	0.313	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	FOXO4, MEF2, LEF1, OCT1, CHX10, YCATTAA	6	15		-	-	-	-	-		0.0256	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MSX1, AACTTT	2	61		-	-	-	-	-		0.496	0.0105	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
10.0nM	*TATA*	1	957	1459869	3.20E-06	1.73E-07	2.28E-05	0.00226	0.178	2700718	1.83E-07	5.35E-09	7.07E-07	6.98E-05	0.0055	3750336	4.06E-07	8.55E-09	1.13E-06	0.000111	0.00878	5238103	7.27E-06	1.10E-07	1.45E-05	0.00143	0.113

30min	*NFAT, AACTTT*	2	425		6.54E-05	3.54E-06	0.000467	0.0461	> 1		0.593	0.0173	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, OCT1, NFAT	3	90		0.00161	-	0.0115	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, AACTTT	2	401		0.00311	0.000168	0.0222	> 1	> 1		0.17	0.00498	0.657	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, OCT, LEF1, OCT1	4	44		0.0113	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, FOXO4, SOX5	3	45		0.0226	-	0.162	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	ETS2, FOXO4	2	208		0.276	0.015	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SRY, SRF	2	29		0.442	0.0239	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TFIIA	1	180		0.662	0.0358	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	FOXO4, PITX2	2	160		0.83	0.0449	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	NFAT, CART1	2	62		-	-	-	-	-		0.121	0.00355	0.468	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, CART1	2	71		-	-	-	-	-		0.561	0.0164	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT1, MEIS1, LEF1, E12, NFAT, AP1	6	17		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0102	-	-	-	-
	FOXO4, CTTTAAR, MEIS1, E12, RSRFC4, NFAT	6	11		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0394	-	-	-	-
10.0nM 45min	*TATA*	1	957	2700718	3.96E-05	1.16E-06	0.000153	0.0151	> 1	3750336	2.37E-08	5.00E-10	6.60E-08	6.52E-06	0.000514	5238103	0.00023	3.47E-06	0.000458	0.0452	> 1	7247034	0.0497	0.000542	0.0716	> 1	> 1
	MAZ, AACTTT, CREB, CREBP1, AREB6	5	12		0.0126	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	ATF1, MAZ, AACTTT	3	24		0.0158	-	0.0611	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	HNF3ALPHA, OCT	2	24		1.63	0.0476	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PAX3, CREBP1	2	30		-	-	-	-	-		0.751	0.0158	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, NFAT	2	115		-	-	-	-	-		1.33	0.028	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CREB, FOXO4, HFH3, CREBP1	4	8		-	-	-	-	-		-	-	-	-	-		0.0451	-	-	> 1	> 1		-	-	-	-	-
	CREBP1, AACTTT	2	96		-	-	-	-	-		-	-	-	-	-		0.57	0.0086	> 1	> 1	> 1		-	-	-	-	-
	FOXO4, TAAYNRNNTCC	2	44		-	-	-	-	-		-	-	-	-	-		1.35	0.0204	> 1	> 1	> 1		-	-	-	-	-
	ATF, CREBP1	2	105		-	-	-	-	-		-	-	-	-	-		2.65	0.04	> 1	> 1	> 1		-	-	-	-	-
10.0nM 90min	*CREB, FOXO4, E4F1, CREBP1*	4	39	1969633	0.00995	-	-	> 1	> 1	3750336	-	-	-	-	-	5238103	-	-	-	-	-	7247034	-	-	-	-	-
	NFAT, AACTTT	2	425		0.022	0.000883	0.117	> 1	> 1		0.349	0.00736	0.971	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, CART1	2	71		0.311	0.0125	> 1	> 1	> 1		1.01	0.0212	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NF1	1	596		0.948	0.038	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	CTGCAGY, LEF1, CREB, AREB6, AACTTT	5	15		-	-	-	-	-		0.0165	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	957		-	-	-	-	-		0.0627	0.00132	0.174	> 1	> 1		0.783	0.0118	> 1	> 1	> 1		0.863	0.00941	> 1	> 1	> 1
	HFH4, CREB	2	23		-	-	-	-	-		0.813	0.0171	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NFAT, CART1	2	62		-	-	-	-	-		1.69	0.0356	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AACTTT, LEF1, FREAC2, CTGCAGY, CREB, MAZ	6	10		-	-	-	-	-		-	-	-	-	-		0.0308	-	-	-	-		-	-	-	-	-

C. HRG (human breast cancer cell)

condition	Motif Combination	Arity	# of target genes	Adjusted *p*-value (exp > 0.5)						Adjusted p-value (exp > 1.0)						Adjusted p-value (exp > 1.5)						Adjusted p-value (exp > 2.0)					
				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni				LAMP		Bonferroni			
				m'		Arity limit 2	3	4	5	m'		Arity limit 2	3	4	5	m'		Arity limit 2	3	4	5	m'		Arity limit 2	3	4	5
						m=79,003	10,428,793	1,029,883,108	8.12E+10			m=79,003	10,428,793	1,029,883,108	8.12E+10			m=79,003	10,428,793	1,029,883,108	8.12E+10			m=79,003	10,428,793	1,029,883,108	8.12E+10
0.1nM 5min	-	-	-	1174108	-	-	-	-	-	2874627	-	-	-	-	-	5542428	-	-	-	-	-	7635557	-	-	-	-	
0.1nM 10min	*MAZ, E12, SP1*	3	227	552135	0.00197	-	0.0372	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	E12, YATTNATC	2	83		-	-	-	-	-		-	-	-	-	-		0.262	0.00519	0.686	> 1	> 1		-	-	-	-	-
	ERR1, AP4	2	162		-	-	-	-	-		-	-	-	-	-		2.17	0.043	> 1	> 1	> 1		-	-	-	-	-
0.1nM 15min	*MAZ*	1	1474	552135	0.111	0.0159	> 1	> 1	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ, E12	2	478		-	-	-	-	-		0.0645	0.00327	0.432	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MAZ, AP4	2	388		-	-	-	-	-		0.0857	0.00435	0.574	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	ZIC1, E47	2	19		-	-	-	-	-		0.293	0.0149	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		-	-	-	-	-		0.00372	7.37E-05	0.00973	0.961	> 1		0.835	0.0119	> 1	> 1	> 1
	LEF1, CTGCAGY, E12, PAX4, MAZ	5	38		-	-	-	-	-		-	-	-	-	-		0.006	-	-	-	> 1		-	-	-	-	-
	CP2, CTGCAGY, E12	3	28		-	-	-	-	-		-	-	-	-	-		0.0161	-	0.0422	> 1	> 1		-	-	-	-	-
	E12, MAZ, NFAT, FOXO4	4	87		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0356	-	-	> 1	> 1
0.1nM 30min	*MAZ, E12*	2	478	699536	0.108	0.0122	> 1	> 1	> 1	2099869	0.00328	0.000123	0.0163	> 1	> 1	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	ELK1, MYOD, ATF	3	11		-	-	-	-	-		0.0115	-	0.0569	> 1	> 1		-	-	-	-	-		-	-	-	-	-
0.1nM 45min	*SP1*	1	1915	699536	0.0193	0.00218	0.288	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ, E12	2	478		0.127	0.0143	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SRF, PAX3	2	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.4	0.0485	> 1	> 1	> 1
0.1nM 60min	*MAZ, E12*	2	478	552135	0.00616	0.000882	0.116	> 1	> 1	1557482	-	-	-	-	-	3982295	0.00692	0.000137	0.0181	> 1	> 1	5542428	-	-	-	-	-
	PAX4	1	1182		0.329	0.0471	> 1	> 1	> 1		0.0913	0.00463	0.612	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	ELK1, MYOD, ATF	3	11		-	-	-	-	-		0.0117	-	0.0786	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MAZ	1	1474		-	-	-	-	-		0.0317	0.00161	0.212	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, PAX4	2	428		-	-	-	-	-		-	-	-	-	-		0.402	0.00798	> 1	> 1	> 1		-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		-	-	-	-	-		0.519	0.0103	> 1	> 1	> 1		-	-	-	-	-
	RFX1	1	296		-	-	-	-	-		-	-	-	-	-		1.97	0.0391	> 1	> 1	> 1		-	-	-	-	-
	TATA, NFKB	2	75		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.705	0.01	> 1	> 1	> 1
0.1nM 90min	*E12, PAX4*	2	428	552135	0.0224	0.0032	0.422	> 1	> 1	1557482	-	-	-	-	-	3982295	0.242	0.00481	0.635	> 1	> 1	5542428	-	-	-	-	-
	MAZ	1	1474		0.0774	0.0111	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	ZIC1, E47	2	19		-	-	-	-	-		0.536	0.0272	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
0.5nM 5min	*MAZ*	1	1474	699536	0.0432	0.00488	0.644	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		0.0467	0.00176	0.232	> 1	> 1		-	-	-	-	-		-	-	-	-	-
0.5nM 10min	*MAZ*	1	1474	552135	0.0425	0.00608	0.802	> 1	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	SP1	1	1915		0.0532	0.00761	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MAZ, E12	2	478		-	-	-	-	-		0.519	0.0263	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
0.5nM 15min	-	-	-	552135	-	-	-	-	-	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	
0.5nM 30min	*MAZ*	1	1474	699536	0.000982	0.000111	0.0146	> 1	> 1	2099869	0.000921	3.47E-05	0.00457	0.452	> 1	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	ELK1, MYOD, ATF	3	11		-	-	-	-	-		0.00919	-	0.0457	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, USF, OCT1, NFKB, AACTTT	5	8		-	-	-	-	-		-	-	-	-	-		0.0184	-	-	-	> 1		-	-	-	-	-
	SRF, PAX3	2	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.145	0.00207	0.273	> 1	> 1
0.5nM 45min	*PAX4*	1	1182	699536	0.00359	0.000406	0.0536	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ	1	1474		0.0838	0.00947	> 1	> 1	> 1		0.0203	0.000764	0.101	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	ETS2	1	757		0.118	0.0133	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	SP1	1	1915		0.142	0.0161	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		0.00133	4.99E-05	0.00658	0.65	> 1		0.0262	0.00052	0.0687	> 1	> 1		-	-	-	-	-
	SRF, PAX3	2	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		1.51	0.0215	> 1	> 1	> 1
0.5nM 60min	*SP1*	1	1915	699536	0.00278	0.000314	0.0414	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ	1	1474		0.066	0.00745	0.984	> 1	> 1		0.349	0.0131	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SRF, PAX3	2	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		3.37	0.048	> 1	> 1	> 1
0.5nM 90min	*E12*	1	1512	552135	3.17E-05	4.54E-06	0.000599	0.0592	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ, E12	2	478		-	-	-	-	-		0.223	0.0113	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, PAX4	2	428		-	-	-	-	-		0.591	0.03	> 1	> 1	> 1		0.0315	0.000624	0.0824	> 1	> 1		-	-	-	-	-
	MAZ, MYOD	2	303		-	-	-	-	-		-	-	-	-	-		1.83	0.0364	> 1	> 1	> 1		-	-	-	-	-
	MAZ, AP4	2	388		-	-	-	-	-		-	-	-	-	-		1.88	0.0374	> 1	> 1	> 1		-	-	-	-	-
	TATA	1	968		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0143	0.000204	0.027	> 1	> 1
1.0nM 5min	*MAZ, E12*	2	478	442874	0.00753	0.00134	0.177	> 1	> 1	1557482	-	-	-	-	-	2874627	-	-	-	-	-	5542428	-	-	-	-	-
1.0nM 10min	-	-	-	442874	-	-	-	-	-	1557482	-	-	-	-	-	2874627	-	-	-	-	-	5542428	-	-	-	-	
1.0nM 15min	*ZIC1, E47*	2	19	359149	0.00486	0.00107	0.141	> 1	> 1	1174108	-	-	-	-	-	2874627	-	-	-	-	-	3982295	-	-	-	-	-
	MAZ	1	1474		0.0287	0.00631	0.833	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, MYOD, E47	3	136		0.0307	-	0.892	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	E12, AP4	2	362		-	-	-	-	-		0.0515	0.00346	0.457	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MAZ, AP4	2	388		-	-	-	-	-		0.123	0.00829	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	ETS2, E12	2	232		-	-	-	-	-		0.439	0.0295	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MAZ, SRF, T3R	3	11		-	-	-	-	-		-	-	-	-	-		0.0265	-	0.0963	> 1	> 1		-	-	-	-	-
	YATTNATC, YCATTAA	2	55		-	-	-	-	-		-	-	-	-	-		0.154	0.00424	0.559	> 1	> 1		-	-	-	-	-
	TATA, NFAT, YATTNATC, AACTTT	4	26		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.046	-	-	> 1	> 1
	NFAT, YATTNATC, YCATTAA	3	26		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.046	-	0.12	> 1	> 1
	OCT, TATA	2	91		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.895	0.0177	> 1	> 1	> 1
1.0nM 30min	*MAZ, E12*	2	478	442874	0.00187	0.000333	0.0439	> 1	> 1	1557482	0.000854	4.33E-05	0.00572	0.565	> 1	2874627	0.704	0.0193	> 1	> 1	> 1	5542428	-	-	-	-	-

	MAZ, AP4	2	388		0.0063	0.00112	0.148	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PAX4, AP4	2	301		-	-	-	-	-		0.492	0.025	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	TATA	1	968		-	-	-	-	-		-	-	-	-	-		0.0429	0.00118	0.156	> 1	> 1		0.104	0.00149	0.196	> 1	> 1
	TTANTCA, MAZ, E12	3	81		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0449	-	0.0844	> 1	> 1
1.0nM 45min	*MAZ*	1	1474	442874	0.0256	0.00457	0.604	> 1	> 1	1174108	0.15	0.0101	> 1	> 1	> 1	2874627	0.044	0.00121	0.16	> 1	> 1	5542428	-	-	-	-	-
	CP2, GATA1, FOXO4, E12	4	14		-	-	-	-	-		0.0284	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MEF2, TATA, TGCTGAY, NFAT, AACTTT	5	11		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0117	-	-	-	> 1
	HSF1, ETS2, FOXO4, E12	4	14		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.013	-	-	> 1	> 1
	HSF1, ETS2, E12, AACTTT	4	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0437	-	-	> 1	> 1
	USF, NFKB, AACTTT, OCT, OCT1, NFAT	6	7		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0488	-	-	-	-
	MAZ, CREBP1	2	100		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		2	0.0285	> 1	> 1	> 1
1.0nM 60min	*MAZ*	1	1474	552135	0.17	0.0243	> 1	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		0.328	0.0123	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SRF, PAX3	2	12		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.469	0.00668	0.882	> 1	> 1
1.0nM 90min	*MAZ, E12*	2	478	552135	0.272	0.039	> 1	> 1	> 1	2099869	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	E12, PAX4	2	428		-	-	-	-	-		0.0447	0.00168	0.222	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, CACCCBINDINGFACTOR	2	73		-	-	-	-	-		0.118	0.00445	0.587	> 1	> 1		-	-	-	-	-		-	-	-	-	-
10.0nM 5min	*MAZ, E12*	2	478	442874	0.0108	0.00193	0.255	> 1	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	AP4	1	1016		0.0264	0.00471	0.622	> 1	> 1		0.0172	0.000871	0.115	> 1	> 1		0.711	0.0141	> 1	> 1	> 1		-	-	-	-	-
	MYOD, E47	2	164		0.0628	0.0112	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MAZ	1	1474		-	-	-	-	-		0.0156	0.000794	0.105	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	PAX4	1	1182		-	-	-	-	-		0.164	0.00834	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
10.0nM 10min	*MAZ*	1	1474	552135	0.00951	0.00136	0.18	> 1	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	E12	1	1512		0.0325	0.00464	0.613	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
10.0nM 15min	*E12, CACCCBINDINGFACTOR*	2	73	552135	0.0743	0.0106	> 1	> 1	> 1	1557482	0.979	0.0497	> 1	> 1	> 1	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	LEF1, CTGCAGY, TATA, NFKB, AACTTT	5	8		-	-	-	-	-		-	-	-	-	-		0.0398	-	-	-	> 1		-	-	-	-	-
	OCT, USF, OCT1, NFKB, AACTTT	5	8		-	-	-	-	-		-	-	-	-	-		0.0398	-	-	-	> 1		-	-	-	-	-
10.0nM 30min	*FOXO4, FOXO1, FREAC2, NFAT, WGTTNNNNNAAA, STAT5A*	6	20	552135	0.0079	-	-	-	-	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	IK2, LEF1, NFAT, FREAC2	4	15		0.0453	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	TCCATTKW, FOXO4, FREAC2, STAT5A	4	15		0.0453	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	MAZ	1	1474		0.0472	0.00676	0.892	> 1	> 1		0.0296	0.0015	0.198	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	CP2, GATA1, FOXO4, E12	4	14		-	-	-	-	-		0.00557	-	-	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	OCT, TATA, NFKB, FOXO4, AACTTT	5	11		-	-	-	-	-		0.014	-	-	-	> 1		-	-	-	-	-		-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		0.182	0.00921	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	SP1, STAT5B	2	74		-	-	-	-	-		0.371	0.0188	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
10.0nM 45min	*PAX4*	1	1182	552135	0.228	0.0326	> 1	> 1	> 1	1557482	0.0176	0.000894	0.118	> 1	> 1	2874627	-	-	-	-	-	5542428	-	-	-	-	-
	MAZ	1	1474		-	-	-	-	-		7.23E-05	3.67E-06	0.000484	0.0478	> 1		-	-	-	-	-		-	-	-	-	-
	LFA1	1	157		-	-	-	-	-		0.0284	0.00144	0.19	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	E12, FOXO4	2	393		-	-	-	-	-		0.243	0.0123	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	NFKB	1	334		-	-	-	-	-		0.926	0.0469	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	FOXO4, E12, ATF, CREB, ATF3, ATF4	6	7		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0362	-	-	-	-
10.0nM 60min	*MAZ*	1	1474	552135	0.0544	0.00778	> 1	> 1	> 1	1557482	-	-	-	-	-	3982295	-	-	-	-	-	5542428	-	-	-	-	-
	AP4	1	1016		-	-	-	-	-		0.511	0.0259	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
10.0nM 90min	*MAZ*	1	1474	552135	0.00347	0.000496	0.0655	> 1	> 1	2099869	0.038	0.00143	0.189	> 1	> 1	3982295	0.0145	0.000288	0.038	> 1	> 1	5542428	-	-	-	-	-
	HSF1, AP1	2	53		0.233	0.0334	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
	PAX4	1	1182		-	-	-	-	-		0.00022	8.28E-06	0.00109	0.108	> 1		0.00792	0.000157	0.0208	> 1	> 1		-	-	-	-	-
	E12, TATA, STAT5A	3	48		-	-	-	-	-		0.0219	-	0.109	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	MYOD, NFAT	2	229		-	-	-	-	-		0.909	0.0342	> 1	> 1	> 1		-	-	-	-	-		-	-	-	-	-
	HSF1, LEF1, OCT1, NFAT	4	24		-	-	-	-	-		-	-	-	-	-		0.00225	-	-	0.581	> 1		-	-	-	-	-
	TATA	1	968		-	-	-	-	-		-	-	-	-	-		0.0108	0.000214	0.0282	> 1	> 1		-	-	-	-	-
	MEF2, SRF	2	63		-	-	-	-	-		-	-	-	-	-		0.0697	0.00138	0.182	> 1	> 1		-	-	-	-	-
	CEBP, E12	2	179		-	-	-	-	-		-	-	-	-	-		0.173	0.00343	0.453	> 1	> 1		-	-	-	-	-
	MYOD	1	794		-	-	-	-	-		-	-	-	-	-		0.402	0.00797	> 1	> 1	> 1		-	-	-	-	-
	NFKB, AACTTT	2	108		-	-	-	-	-		-	-	-	-	-		2.32	0.046	> 1	> 1	> 1		0.384	0.00547	0.723	> 1	> 1
	E12, TATA, NFAT, STAT5A	4	35		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0249	-	-	> 1	> 1
	SRF	1	291		-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		0.0514	0.000732	0.0967	> 1	> 1