Text S4. Complete list of *cis-r*egulatory motifs identified in the study

To detect significant *de novo cis*-regulatory motifs in promoter sequences of genes whose expression was regulated by yeast AP-1 TFs during benomyl stress response, we used the global procedure described in the main text and illustrated in the Text S3. The finally conserved *de novo cis*-regulatory motifs are shown below:

Motif ^a	Algorithm ^b	% ^c	p-value ^d
MTKASTMA	SCOPE	82.10	4.48E-19
GMTKASTAAK	MEME	38.80	1.54E-23
ATTACTAAG	Oligo-Analysis	14.90	9.14E-09
CATTACTAA	Oligo-Analysis	13.40	2.62E-07
ΤΑΤΤΑϹΤΑΑ	Oligo-Analysis	13.40	1.14E-05
ΑΤΤΑCΤΑΑΤ	Oligo-Analysis	11.90	2.05E-05
GCTTACTAA	Oligo-Analysis	11.90	1.26E-08
ATTAGTCAG	Oligo-Analysis	10.40	9.10E-08
GCTGACTAA	Oligo-Analysis	10.40	2.86E-07
ATTAGTAAG	Oligo-Analysis	10.40	6.91E-06
ACTTAGTAA	Oligo-Analysis	10.40	6.91E-06
CTTACTAAG	Oligo-Analysis	09.00	5.42E-05

Detailed *de novo cis*-regulatory motif information in *S. cerevisiae*.

^a The motif identified and preserved during the search pattern. M designates A or C, K designates G or T and S designates C or G.

^b The motif discovery algorithm that identified the motif given in the first column.

^c The percentages of genes of the Yap1p bTM whose motif described in first column is found in their promoter.

^d *P-values* of the representation in Yap1p bTM of motif described in first column . These have been calculated using a hypergeometric distribution.

Motif ^a	Algorithm ^b	% ^c	p-value ^d
MTTASSTAA	SCOPE	24.50	7.25E-14
CMTTACCTAA	MEME	9.2	4.71E-10
ATTAGCTAA	Oligo-Analysis	8.2	7.62E-07
ATTAGGTAA	Oligo-Analysis	8.2	4.07E-06
ΑΤΤΑCCTAA	Oligo-Analysis	8.2	4.07E-06
ATTACYAAW	MEME	19.4	6.54E-05
ATTACAAAT	MEME Oligo-Analysis	12.2	4.65E-05

Detailed *de novo cis*-regulatory motif information in *C. glabrata*.

^a The motif identified and preserved during the search pattern. M designates A or C, S designates C or G, Y designates T or C and W designates A or T.

^b The motif discovery algorithm that identified the motif given in the first column.

^e The percentages of genes of the Cgap1p TM whose motif described in first column is found in their promoter.

^d*P-values* of the representation in Cgap1p TM of motif described in first column . These have been calculated using a hypergeometric distribution.

Note that the observation that only 50% of Cgap1p-dependant genes exhibit MTTASSTAA or ATTACHAAW motifs in their promoter sequences (see the main text) suggests that other Cgap1p potential motifs have to be discovered. In that respect, we could observe that when the consensus sequence ATTACHAAW is degenerated in sequence MTKASWMA (with M = (A or C); K = (G or T); S = (G or C); W = (A or T)), the number of Cgap1p-dependant genes that comprise this consensus in their promoter sequences increased from 31% (ATTACHAAW, see Figure 2) to 80%. Motifs that remain to be identified in Cgap1p-dependant genes are certainly YREO-like sequences included in the MTKASWMA consensus. However, this information needs to be considered with caution. Indeed, the consensus MTKASWMA is highly degenerated and therefore the enrichment p-value is 2.10-4, i.e. a value that is higher than the threshold value (10-5) that we used to select motifs in others species (see Figure 2 and Text S3 for details). All together, these data support the hypothesis that Cgap1p binding properties are more flexible and permissive than the one of Yap1p and Cap1p.

Motif ^a	Algorithm ^b	% ^c	p-value ^d
HNMTKASTMAK	SCOPE	57.70	1.74E-34
ΑΤΤΑCΤΑΑΚ	MEME	38.50	2.83E-31
ATTWGTMAKC	MEME	37.70	6.50E-40
ΑΤΤΑCΤΑΑΤ	Oligo-Analysis	32.30	1.79E-27
GATTACTAA	Oligo-Analysis	17.10	3.10E-17
AATTAGTAA	Oligo-Analysis	14.60	1.18E-07
GATTAGTAA	Oligo-Analysis	12.30	3.66E-10
GCTGACAAA	Oligo-Analysis	09.20	3.61E-11

Detailed *de novo cis*-regulatory motif information in *C. albicans*.

^a The motif identified and preserved during the search pattern. H designates A or C or T, N designates any bases, M designates A or C, K designates G or T, S designates C or G and W designates A or T.

^b The motif discovery algorithm that identified the motif given in the first column.

^c The percentages of genes of the Cap1p TM whose motif described in first column is found in their promoter.

^d *P-values* of the representation in Cap1p TM of motif described in first column . These have been calculated using a hypergeometric distribution.