

Additional file 4 – Examples of TFs and their specific binding sites sequences

A. Human TFs and their specific binding sites sequences

TF name : CDC6 (cell division cycle 6)
<i>GO annotations</i> : GO:0007049, GO:0051301, GO:0008156, <i>Binding sites sequences</i> : TTTCGCGCCAAA
TF name : PCAF (p300/CBP-associated factor)
<i>GO annotations</i> : GO:0003712, GO:0006355, GO:0008285 <i>Binding sites sequences</i> : CTTTATTTTGGTGAATTAGCAACAAAGAA
TF name : CCNB2 (cyclin B2)
<i>GO annotations</i> : GO:0000074 <i>Binding sites sequences</i> : TGGCCCCTGGGGATGTGTGCTTCA
TF name : CDK7 (cyclin-dependent kinase 7)
<i>GO annotations</i> : GO:0045893, GO:0051301, GO:0000079 <i>Binding sites sequences</i> : ATATTTTATATATACAGTATCT
TF name : E2F1 (E2F transcription factor 1)
<i>GO annotations</i> : GO:0000074, GO:0000080, GO:0000122, GO:0003700 <i>Binding sites sequences</i> : TTTCGCGC
TF name : HDAC3 (histone deacetylase 3)
<i>GO annotations</i> : GO:0000074, GO:0006355, GO:0007346, GO:0008134 <i>Binding sites sequences</i> : TTCCAGGCTCCTCACT

We collect known transcription factor binding sites sequences from ENSEMBL, TRANSFAC, SGD and YPD databases for human and yeast.

B. Examples of yeast TFs and their specific binding sites sequences

TF name : ABF1 (YKL112W)
<i>GO annotations</i> : GO:0006355, GO:0003700, GO:0045941 <i>Binding sites sequences</i> : RTCAYTNNNNACGW
TF name : ACE2 (YLR131c)
<i>GO annotations</i> : GO:0006355, GO:0016563, GO:0000114 <i>Binding sites sequences</i> : TGCTGGT
TF name : FKH2 (YNL068C)
<i>GO annotations</i> : GO:0000074, GO:0000116, GO:0003700, GO:0006355 <i>Binding sites sequences</i> : GTAAACA, RYMAAYA
TF name : MCM1 (YMR043W)
<i>GO annotations</i> : GO:0003700, GO:0003702, GO:0006355 <i>Binding sites sequences</i> : WTWCCYAAWNNGGTAA
TF name : MSN4 (YKL062W)
<i>GO annotations</i> : GO:0006355, GO:0003700 <i>Binding sites sequences</i> : AAGGGG
TF name : MAC1 (YMR021C)
<i>GO annotations</i> : GO:0006355, GO:0003700 <i>Binding sites sequences</i> : TTTGCTC
TF name : RAP1 (YNL216W)
<i>GO annotations</i> : GO:0003700, GO:0006355, GO:0045449 <i>Binding sites sequences</i> : WRMACCCATACAYY
TF name : STE12 (YHR084w)
<i>GO annotations</i> : GO:0003700, GO:0006355, GO:0007329 <i>Binding sites sequences</i> : ATGAAACA
TF name : SWI4 (YER111c)
<i>GO annotations</i> : GO:0003700, GO:0006355 <i>Binding sites sequences</i> : CACGAAAA

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