

Supplementary Table 1: Genes previously reported as cell cycle regulated

Gene Name	Expression peak ^a	Cluster ^b	Protein ^c	References
<i>cdc15</i>	M	1	nd	1
<i>cdc18</i>	G1/S	2	P	2
<i>cdc19</i>	M/G1?	NP	NP	3,4 ^d
<i>cdc22</i>	G1/S	2	nd	5
<i>cdc25</i>	M	1	P	6
<i>cdt1</i>	G1	2	P	7
<i>cdt2</i>	G1	2	P	7
<i>cig2</i>	G1/S	2	P	8,9
<i>cmk1</i>	G1/S	NP	nd	10
<i>cnp1</i>	G1/S	2	nd	11
<i>dfp1</i>	G1/S	2	P	12
<i>fin1</i>	as <i>cdt1</i>	2	P	13
<i>eng1</i>	G1/S	2	nd	14
<i>hht1</i>	S	3	nd	11,15
<i>htal</i>	S	3	nd	16
<i>htb1</i>	S	3	nd	17
<i>mid1</i>	M/G1	NP ^e	nd	3
<i>mid2</i>	M	2	P	18
<i>mik1</i>	G1/S	2	P	19,20,21
<i>mrc1</i>	as <i>cdc18</i>	2	nd	22
<i>pht1</i>	S	3	nd	23,24
<i>plol</i>	M/G1	1	NP	3
<i>ppb1</i>	S or M/G1?	NP ^e	nd	3,25 ^d
<i>rad21</i>	G1/S	2	P	26
<i>res2</i>	G1/S?	NP ^e	NP	9 ^f
<i>rhp51</i>	before <i>cdc22</i>	1	P	27
<i>rph1</i>	G1/S	2	nd	28
<i>rrg1</i>	G2/M	NP	nd	29
<i>rum1</i>	end G2	1	P	30
<i>sid2</i>	M/G1	1	nd	3
<i>slp1</i>	M	1	P	31
<i>spo12</i>	as <i>cdc15</i>	1	nd	32
<i>ssb1</i>	as <i>cdc22</i>	2	nd	33
<i>ste9</i>	as <i>cdc18</i>	2	nd	34
(<i>suc22</i>)	G1/S (transcript dep.)	NP ^e	nd	35,36 ^g

^a Phase of peak expression as reported in the original references.

^b Grouping into clusters (see Methods). NP: no periodic expression detected in this study.

^c Protein levels during cell cycle. P: periodic; NP: not periodic; nd: no data.

Based on data in PombePD (www.incyte.com/control/tools/proteome).

^d Data on cell cycle regulation are conflicting between different groups.

^e These genes showed signs of weak periodicity (especially in *cdc25* block-release experiments) but did not meet our criteria for cell cycle-regulated genes.

^f *res2* showed marginal if any periodicity in the original publication.

^g *suc22* produces a large, weakly expressed transcript that is cell cycle regulated and also a smaller transcript that is higher and continuously expressed, which explains why we did not detect clear cell cycle regulation.

Our data suggest periodic expression for a few genes that were reported not to be cell cycle regulated, most notably the two DNA polymerases genes *cdc20* (ref. 37) and *poll* (ref. 38).

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