

Supplementary Table 4: Enrichment for Gene Ontology (GO) terms among periodically expressed genes

Gene list	GO term ^a	Total genes in gene list ^b	Total genes with GO term	Genes with GO term in gene list ^b	Significance of GO term enrichment ^b
Cluster 1 ^c	M-phase	87 (42)	274	23 (21)	1.8e-07 (4.9e-13)
	Cytokinesis	87 (42)	101	14 (13)	2.4e-06 (1.3e-09)
	Chromosome condensation	87 (42)	42	8 (6)	9.9e-04 (2.4e-03)
Cluster 2 ^c	DNA replication and chromosome cycle	78 (55)	193	19 (16)	9.4e-08 (2.0e-07)
	S-phase of mitotic cell cycle	78 (55)	159	16 (14)	3.1e-06 (1.7e-06)
Cluster 3	Chromatin	46 (18)	157	12 (11)	1.9e-05 (1.1e-09)
Core cell cycle-regulated ^c	M-phase	43	274	23	2.3e-15
	DNA metabolism	43	354	22	1.2e-11
	DNA replication and chromosome cycle	43	193	17	1.5e-10
	Chromosome	43	235	18	2.5e-10
	Cytokinesis	43	101	13	1.9e-09

^a GO terms are from the Biological Process ontology, except Chromatin and Chromosome (Cellular Component ontology) (Gene Ontology Consortium, 2004, Nucl. Acids Res. 32:D258). GO information was downloaded from *S. pombe* GeneDB (www.genedb.org/genedb/pombe/index.jsp). In some cases, more specific subtypes of the listed parental terms were also significantly enriched. Cluster 4 genes were not significantly enriched for any GO terms.

^b Values in parentheses represent the corresponding data if only 'high amplitude' genes were considered.

^c These gene lists were also highly enriched for less specific GO terms such as 'Cell proliferation' and 'Mitotic cell cycle' ($P \sim 10^{-7}$ - 10^{-19}).