

Web Table J: Core meiotic transcriptome conserved in fission and budding yeasts.

Note that ~50 genes would be expected to be part of the core meiotic transcriptome by chance (Fig. 4). Fission yeast early genes correspond approximately to budding yeast cluster 4, middle genes to clusters 5-6 and late genes to cluster 7²⁶. Cell cycle genes, APC components and recombination genes tend to belong to the corresponding clusters in both species.

	<i>S.cerevisiae</i>		<i>S. pombe</i>	Cluster (<i>S.c./S.p.</i>)	Function
Anaphase-promoting complex					
<i>CDC27</i>	YBL084C	<i>nuc2</i>	SPAC1851.01	5/middle	APC component
<i>APC4</i>	YDR118W	<i>cut20</i>	SPAC19G12.01C	5/middle	APC component
<i>CDC16</i>	YKL022C	<i>cut9</i>	SPAC6F12.15C	6/middle	APC component
<i>APC1</i>	YNL172W	<i>cut4</i>	SPBC106.09	7/middle	APC component
<i>APC5</i>	YOR249C	<i>apc5</i>	SPAC959.09C	5/middle	APC component
<i>CDC23</i>	YHR166C	<i>cut23</i>	SPAC6F12.14	6/middle	APC component
<i>CDC26</i>	YFR036W	<i>hcn1</i>	SPAC23C11.12	6/middle	APC component
<i>HCT1</i>	YGL003C	<i>ste9</i>	SPAC144.13c	5/early(SPCC1620.04C)	APC regulator (<i>CDC20/fizzy</i>)
<i>CDC20</i>	YGL116W	<i>mfr1/fzr1</i>	SPBC660.02	middle(SPAC13G6.08C,	
<i>AMA1</i>	YGR225W	<i>slp1s</i>	SPAC821.08C SPAC13G6.08 SPCC1620.04C	<i>slp1,mfr1</i>)/late(<i>ste9</i>)	
Septins					
<i>CDC10</i>	YCR002C	<i>spn2</i>	SPAC821.06	5/middle	septins
<i>CDC3</i>	YLR314C	<i>spn5</i>	SPAC24C9.15C		
<i>SPR3</i>	YGR059W	<i>spn6</i>	SPCC188.12		
<i>SPR28</i>	YDR218C	<i>spn7</i>	SPBC21.08C		
Cell cycle regulators					
<i>CDC14</i>	YFR028C	<i>clp1/flp1</i>	SPAC1782.09C	5/middle	protein phosphatase
<i>CDC5</i>	YMR001C	<i>plo1</i>	SPAC23C11.16	5/middle	polo kinase
<i>CLB1</i>	YGR108W	<i>cig2</i>	SPAPB2B4.03	5-6/middle	B-type cyclin
<i>CLB3</i>	YDL155W	<i>cdc13</i>	SPBC582.03		
<i>CLB4</i>	YLR210W				
<i>CLB5</i>	YPR120C				
<i>CLB6</i>	YGR109C				
Recombination/chromosome cohesion					
<i>REC114</i>	YMR133W	<i>rec7</i>	SPCC1753.03C	4/early	recombination protein
<i>DMC1</i>	YER179W	<i>dmc1</i>	SPAC8E11.03C	4/early	recombination protein
<i>MND1</i>	YGL183C		SPAC13A11.03	4/early	recombination protein
<i>HOP2</i>	YGL033W	<i>meu13</i>	SPAC222.15	4/early	recombination protein
<i>SMC3</i>	YJL074C	<i>smc3</i>	SPAC10F6.09C	4/early	cohesin
<i>REC8</i>	YPR007C	<i>rec8</i>	SPC29A10.14	4/early	cohesin
Chromosome segregation					
<i>STU1</i>	YLR045C	<i>dis1</i>	SPCC736.14	5/middle	spindle pole body component
<i>TID3</i>	YIL144W	<i>ncd10</i>	SPBC11C11.03	6/middle	chromosome segregation
<i>UBC11</i>	YOR339C	<i>ubc11</i>	SPCC1259.15C	5/middle	chromosome segregation (<i>S.p.</i>)
DNA repair					
<i>RAD23</i>	YEL037C	<i>rhp23</i>	SPBC2D10.12	4/middle	DNA repair
<i>EXO1</i>	YOR033C	<i>exo1</i>	SPBC29A10.05	5/middle	DNA repair/recombination
<i>HRR25</i>	YPL204W	<i>hhp1</i>	SPBC3H7.15	5/middle	DNA repair (casein kinase I)
Others					
<i>HUL4</i>	YJR036C		SPBP8B7.27	5/late	putative ubiquitin ligase

<i>LEE1</i>	YPL054W	<i>scp3</i>	SPAC3A11.02	2/middle	zinc finger domains
<i>ENA42</i>	YDR039C	<i>cta3</i>	SPBC839.06	2/middle	P-type ATPase
<i>PMC1</i>	YGL006W		SPAPB2B4.04C	2/middle	P-type ATPase
<i>CMK2</i>	YOL016C	<i>cmk1</i>	SPACUNK12.02C	3/late	casein kinase
<i>CHS1</i>	YNL192W	<i>chs1</i>	SPAC13G6.12C	3/middle	chitin-synthase
	YGR273C		SPBC19C7.04C	5/early	unknown function
<i>ISA1</i>	YLL027W		SPCC645.03C	6/middle	iron metabolism(<i>S.c.</i>)
<i>HTZ1</i>	YOL012C	<i>pht1</i>	SPBC11B10.10C	6/early	histone
<i>SPO73</i>	YER046W		SPAC1296.04	6/middle	very low homology-best reciprocal hits
<i>AUT7</i>	YBL078C		SPBP8B7.24C	7/middle	<i>S.c.</i> protein required for delivery of autophagic vesicles to vacuole
<i>BAG7</i>	YOR134W		SPBC557.01	3/late	rho-GAP protein
<i>ROM2</i>	YLR371W		SPAC1006.06	6/middle	rho-GEF
<i>RAS2</i>	YNL098C	<i>ras1</i>	SPAC17H9.09C	3/middle	ras homologue
<i>GN41</i>	YFL017C	<i>gnal</i>	SPAC16E8.03	6/late	glucosamine transferase
<i>SGA1</i>	YIL099W	<i>meu17</i>	SPBC14C8.05C	5/middle	glucosamylase
<i>CLG1</i>	YGL215W		SPBC1D7.03	6/middle	cyclin-like protein
<i>CYB2</i>	YML054C		SPAPB1A11.03	unclassified/late	dehydrogenase
	YNR036C		SPAC4F8.06	unclassified/middle	mitochondrial ribosomal protein
<i>ECM4</i>	YKR076W		SPCC1281.07C	7/late	glutathione-S-transferase domain
<i>TOS7</i>	YOL019W		SPCC1739.10	3/early	unknown function
<i>ARN2</i>	YHL047C		SPCC61.01C	unclassified/middle	MFS transporter
<i>GTT1</i>	YIR038C		SPAC688.04C	7/late	glutathione-S-transferase domain
<i>RIB5</i>	YBR256C		SPCC1450.13C	2/late	riboflavin synthesis
<i>CHO1</i>	YER026C		SPCC1442.12	3/middle	CDP-DAG phosphatidyl transferase
<i>XKS1</i>	YGR194C		SPCPJ732.02C	unclassified/middle	xylulose kinase
<i>PCT1</i>	YGR202C		SPCC1827.02C	6/middle	phosphatidyl-choline matabolism
	YLL032C		SPBC9B6.13	5/middle	unknown function
	YHR097C		SPBC6B1.03C	3/late	unknown function
<i>ELC1</i>	YPL046C		SPBC1861.07	6/middle	transcription elongation factor
<i>SYF2</i>	YGR129W		SPBC3E7.13C	unclassified/middle	pre-mRNA splicing factor (<i>S.c.</i>)
<i>PGM2</i>	YMR105C		SPBC32F12.10	2/middle	phosphoglucomutase
<i>RK11</i>	YOR095C	<i>ppi</i>	SPAC144.12	7/middle	phosphatidyl-serine metabolism
<i>SUR4</i>	YLR372W		SPAC1B2.03C	5/middle	fatty acid elongation
<i>PIB1</i>	YDR313C		SPBC36B7.05C	4/early	ubiquitin ligase (<i>S.c.</i>)
<i>PIN3</i>	YPR154W	<i>csh3</i>	SPBC119.05C	2/middle	SH3-containg protein
<i>SSO2</i>	YMR183C	<i>sso1</i>	SPCC825.03C	7/middle	syntaxin
<i>FBP1</i>	YLR377C	<i>fbp1</i>	SPBC1198.14C	unclassified/early	fructose biphosphatase
<i>GLG2</i>	YJL137C		SPBC4C3.08	4/middle	unknown function
<i>ARE2</i>	YNR019W		SPAC13G7.05	4/middle	cholesterol metabolism
	YIL125W		SPBC3H7.03C	unclassfied/middle	alpha-ketoglutarate dehydrogenase
	YOR223W		SPAC20H4.02	3/middle	unknown function
	YPL221W		SPCC663.14C	1/late	unknown function
	YNL115C		SPAC23C11.06C	3/late	unknown function
	YDR262W		SPBC146.10	3/middle	unknown function
	YHR087W		SPBC21C3.19	3/late	unknown function
<i>GDI1</i>	YER136W	<i>gdi1</i>	SPAC22H10.12C	2/late	secretion
	YPL170W		SPAC26H5.15	6/middle	steroid -binding domain

<i>PDC1</i>	YLR044C		SPAC3H8.01	2/late	pyruvate decarboxylate
<i>OXR1</i>	YPL196W		SPAC8C9.16C	3/middle	unknown function
	YHR121W		SPBC9B6.12C	3/middle	unknown function