

**Table S19. Comparison of the core elements of the MEN/SIN pathway**

<i>S. cerevisiae</i>	<i>S. pombe</i>	<i>A. nidulans</i>	<i>C. neoformans</i>	<i>U. maydis</i>	<i>R. oryzae</i>
Tem1p	Spg1	AN7206	CNAG_05513	UM04012	RO3G_02554
Bub2p	Cdc16	AN0281	CNAG_05406	UM00561	RO3G_01384
Bfa1p	Byr4	AN9413	CNAG_06325	UM02890	RO3G_03177
Cdc15p	Cdc7	SEPH	CNAG_06845	UM00721	None*
Dbf2p/SidB	Sid2	SIDB	CNAG_02194	UM03446	None

\* five paralogues share only the kinase domain: RO3G\_16294.1 (352 aa), RO3G\_12035.1 (333 aa), RO3G\_16945.1 (314 aa), RO3G\_04911.1 (538 aa), RO3G\_03201.1 (495 aa), which are much smaller comparing to the other proteins (Supplementary Figure S7).