

Table S2. Phenotype summary of the data presented in this paper for each mutant and wild-type.

Strain	Conidia time to germinate	Germling Fusion	Hyphal Fusion	Aerial Hyphae Height (cm)	Growth Rate (cm/day)	Proto- perithecia	Female Fertile	Male Fertile	Ascospore Viable	Sensitive to cell wall stress?
wild-type (FGSC 2489)	2.5hrs	yes	yes	5	8	yes	yes	yes	yes	no
<i>Δadv-1</i>	2.5hrs	no	no	2	5.5	yes	no	yes	yes	no
<i>Δadv-1 (Ptef1-adv-1-v5)</i>	2.5hrs	yes	yes	5	8	yes	yes	yes	yes	no
<i>Δadv-1 (Ptef1-pp-1-v5)</i>	2.5hrs	no	no	2	5.5	yes	no	yes	yes	no
<i>Δpp-1</i>	3hrs	no	no	1.5	2	no	no	yes	no	yes
<i>Δpp-1 (Ptef1-adv-1-v5)</i>	2.5hrs	yes	yes	5	8	yes	yes	yes	no	no
<i>Δpp-1 (Ptef1-pp-1-v5)</i>	2.5hrs	yes	yes	5	8	yes	yes	yes	no	no
<i>Δpp-1 (Pccg1-pp-1-<i>gfp</i>)</i>	2.5hrs	yes	yes	4	6.5	no	no	partial	no spores	no
<i>Δmak-1</i>	3.5hrs	no	no	1	0.5	yes	no	yes	no	yes
<i>Δmak-1 (Ptef1-adv-1-v5)</i>	3.5hrs	no	no	2	8	yes	no	yes	no	no
<i>Δmak-1 (Ptef1-pp-1-v5)</i>	3.5hrs	no	no	1	0.5	yes	no	yes	no	yes
<i>Δmak-2</i>	3.5hrs	no	no	1	1.5	no	no	yes	no	yes
<i>Δmak-2 (Ptef1-adv-1-v5)</i>	3.5hrs	no	no	1	1.5	no	no	yes	no	yes
<i>Δmak-2 (Pccg1-pp-1-<i>gfp</i>)</i>	3.5hrs	no	no	1	1.5	no	no	yes	no	no