

(A)

Strains/Plasmids	Genotype	Source
<i>Strains</i>		
BY4741 $\Delta GPA1$	<i>MATa GPA1::KanMX4</i>	EUROSCARF
AG $\Delta GPA1 \Delta STE2$	<i>MATa GPA1::hph; STE2::kanMX4</i>	This study
AGLPbGpa1	<i>MATa GPA1::hph pLPbGpa1</i>	This study
AGLPbGpa1PreB	<i>MATa GPA1::hph pLPbGpa1; STE2::kanMX4 pLPreB</i>	This Study
<i>Plasmids</i>		
pLPbGpa1	pCM189::PbGPA1 Ampicillin ^R /Histidine ⁺	This study

(B)

Mate pair ^a	% Mating ^b
BY4741 X BY4742	48.8 \pm 4.53
BY4741 X AGLPb α	Not detected
AGLPreB X BY4742	Not detected
AGLPreB X AGLPb α	2.53 \pm 0.87
AGLPbGpa1 X BY4742	Not detected
AGLPreBPbGpa1 X AGLPb α	2.92 \pm 0.56

^a Strains as described in (A)

^b Percentage mating \pm standard deviation

Figure S3: Mating efficiencies of *S. cerevisiae* null mutants heterologously expressing the *Paracoccidioides* α -pheromone receptor PreB and G-protein PbGpa1. Strains and plasmids used in mating assays (A). Mating efficiencies of mate pairs (B). Mating -assays were performed as described in the Materials and Methods. PbGpa1 on its own is not able to restore mating in a BY4741_ *GPA1* strain, but the *Paracoccidioides* α -pheromone receptor PreB and G-protein PbGpa1 collectively restore the mating ability in the corresponding *S. cerevisiae* double mutant.