



Figure S5 Fertility rescue in heterokaryons. $\Delta PaMpk2 leu1-1/\Delta mat lys2-1$ heterokaryons were crossed with wild type (WT) or $\Delta PaMpk2$ mutants. When wild type was the female parent (top left), numerous normal perithecia matured. When $\Delta PaMpk2$ mutants were the female parent, no perithecium was differentiated (Top right). When the heterokaryons were the female parent (bottom), a few normal-looking ascospore-producing perithecia (arrows) were obtained among numerous abnormal looking ones in both types of cross.