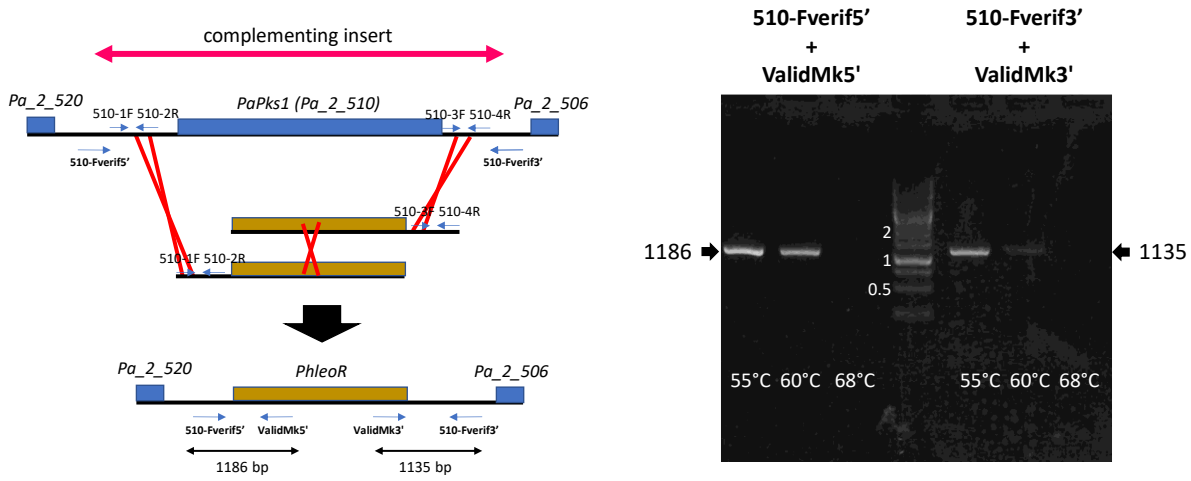

Fig. S1. Schematic representation of PaPks1 gene replacement and PCR validation. Left: schematic representation of *PaPks1* locus before and after gene replacement. Right: PCR validation using primers 510-Fverif5'(atgggaggaggcgctcagccgttgagctg) and ValidMk5' (tgagaagcacacggtcac) to check for correct 5' junction and 510-Rverif3'(tactcccggaggcctaccgcattaccgtac)and Valid Mk 3' (tcggggcgaaaactctc) to check for 3' region. Elongation during PCR amplification was performed at 55°C, 60°C and 68°C. Amplification of bands with the correct sizes was observed only at 55°C and 60°C as expected from the melting temperature of the primers.

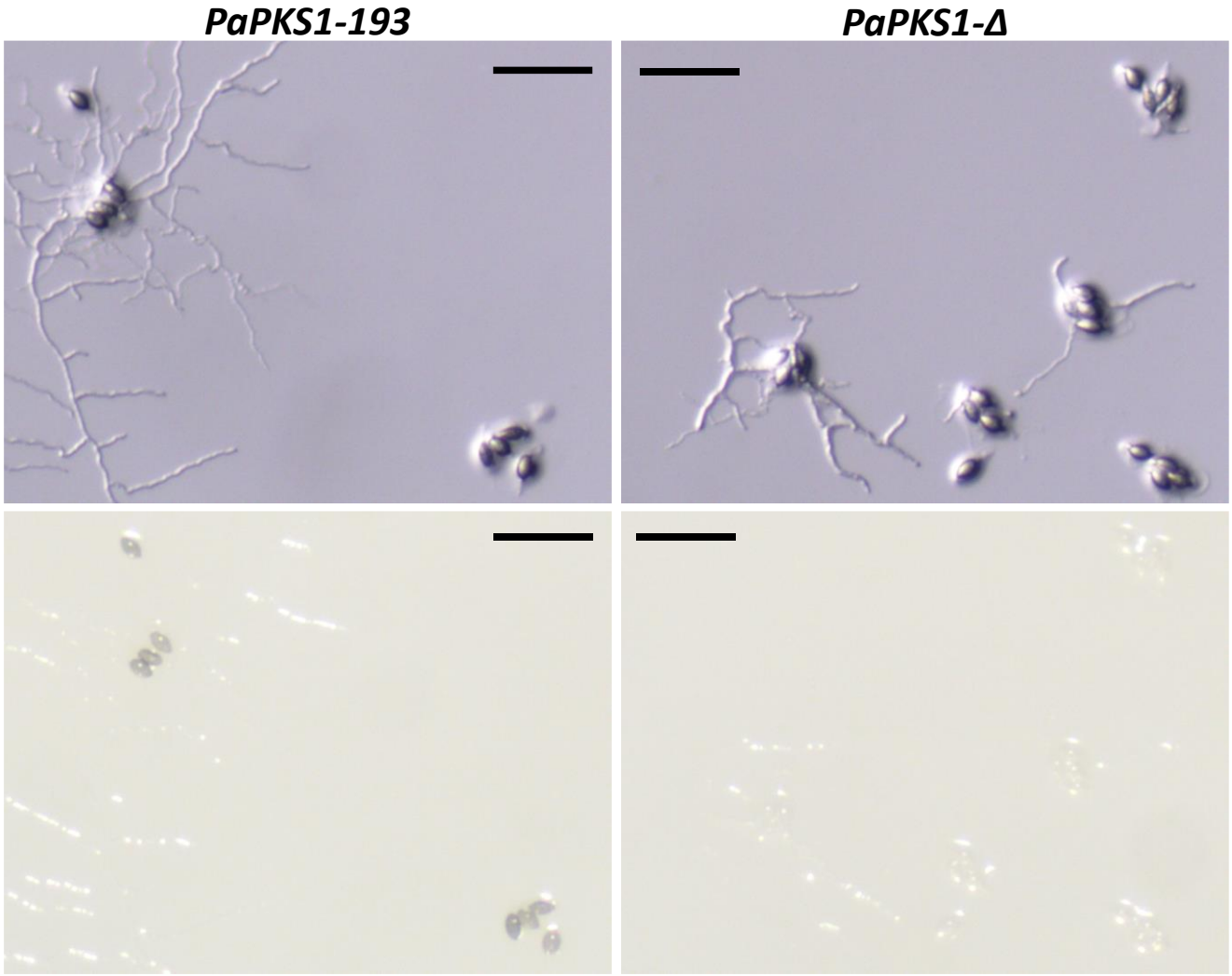

Fig. S2. Pigmentation of *PaPKS1-193* and *PaPKS1-Δ* ascospores at 18°C Top panel: ascospores illuminated from below to see ascospores shapes and position and bottom ascospores illuminated from above to see pigmentation. Bars= 100 µm.

Table S1: primers used to replace *PaPKS1* by a phleomycin resistance marker

510-1F	ctgtggcgatgacgtgaggtgaggggcaac
510-2R	CTATTTAACGACCCTGCCCTGAACCGggcgaccatgtccgcacacgacgatatgat
510-MkF	atcatatcgtcgtgtgcggacatggtcgccCGGTTCAGGGCAGGGTCGTTAAATAG
510-MkR	tctacttcactcgaaccttgcatagaggcaCATCGAACTGGATCTCAACAGCGGTAAG
510-3F	CTTACCGCTGTTGAGATCCAGTTCGATGtgcctctatgcaaggttcgagtgaagtaga
510-4R	ttacggcggtcggtcggttcacggttagct