

Figure S5. Graphical representation of the mutated loci for the analyzed A. fumigatus mutants and their respective Southern blots. The genes of interest are shown in blue, their flanking genes are in gray. The cassettes for resistance to pyrithiamine (*ptrA*) and hygromycin (*hph*) are labeled in green and pink, respectively. The probes used for Southern blot analyses are marked as red stripes. The DNA ladder used is indicated (Hyperladder 1Kb, Bioline). (A) The mpkB gene was deleted, and the mutant strain complemented with the native gene by ectopic integration. (B) The $\Delta mpkB$ strain was complemented by homologous recombination with the native mpkB gene fused with a gfp sequence (in yellow), and a nos terminator sequence (in black). (C) Deletion of the *mpkA* gene in the *mpkB-gfp* background and in the $\Delta mpkB$ strain. The Southern blots were performed separately. The probe also anneals an additional ~2 Kb band. (D) Deletion and complementation of the gprM locus; the complementation was obtained by homologous recombination. (E) Deletion and complementation of the gpaA locus. The complementation was performed by ectopic integration of the gpaA wild-type gene. (F) Disruption of the gpaC gene. (G) Disruption of the *pksP* gene in the wild-type, the $\Delta mpkB$, the $\Delta gpaA$ and the $\Delta qprM$ strains. (H) The dicistronic genes including the gpaA-gfp/gprM-3HA and the gfp/gprM-3HA sequences were ectopically integrated in the A. fumigatus CEA10 strain. Positive transformants have been validated by western-blot using anti-GFP antibodies (left panel) and anti-HA antibodies (right panel). The predicted molecular weights of the gene products are also reported.