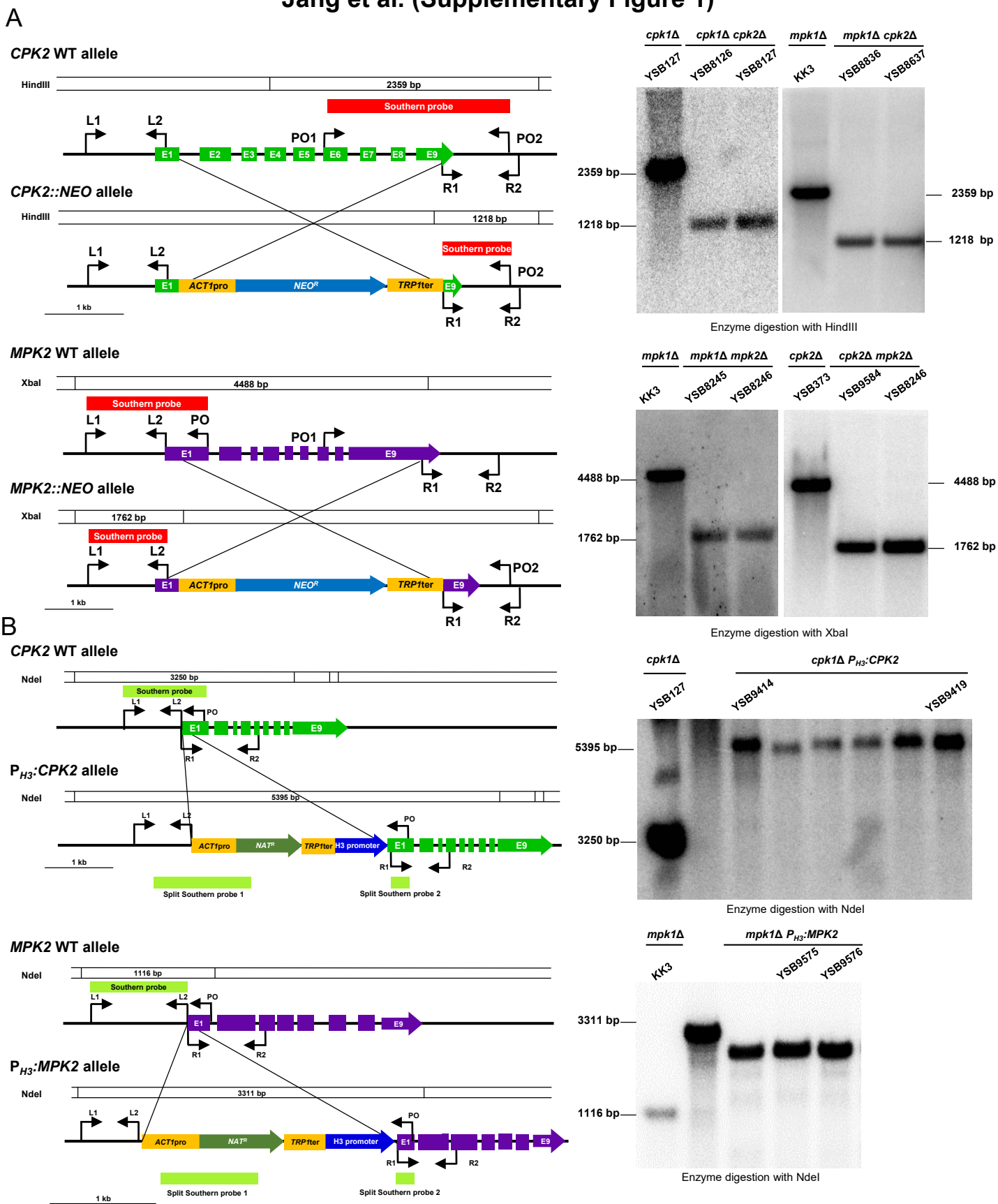
Jang et al. (Supplementary Figure 1)



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Jang et al. (Supplementary Figure 1)

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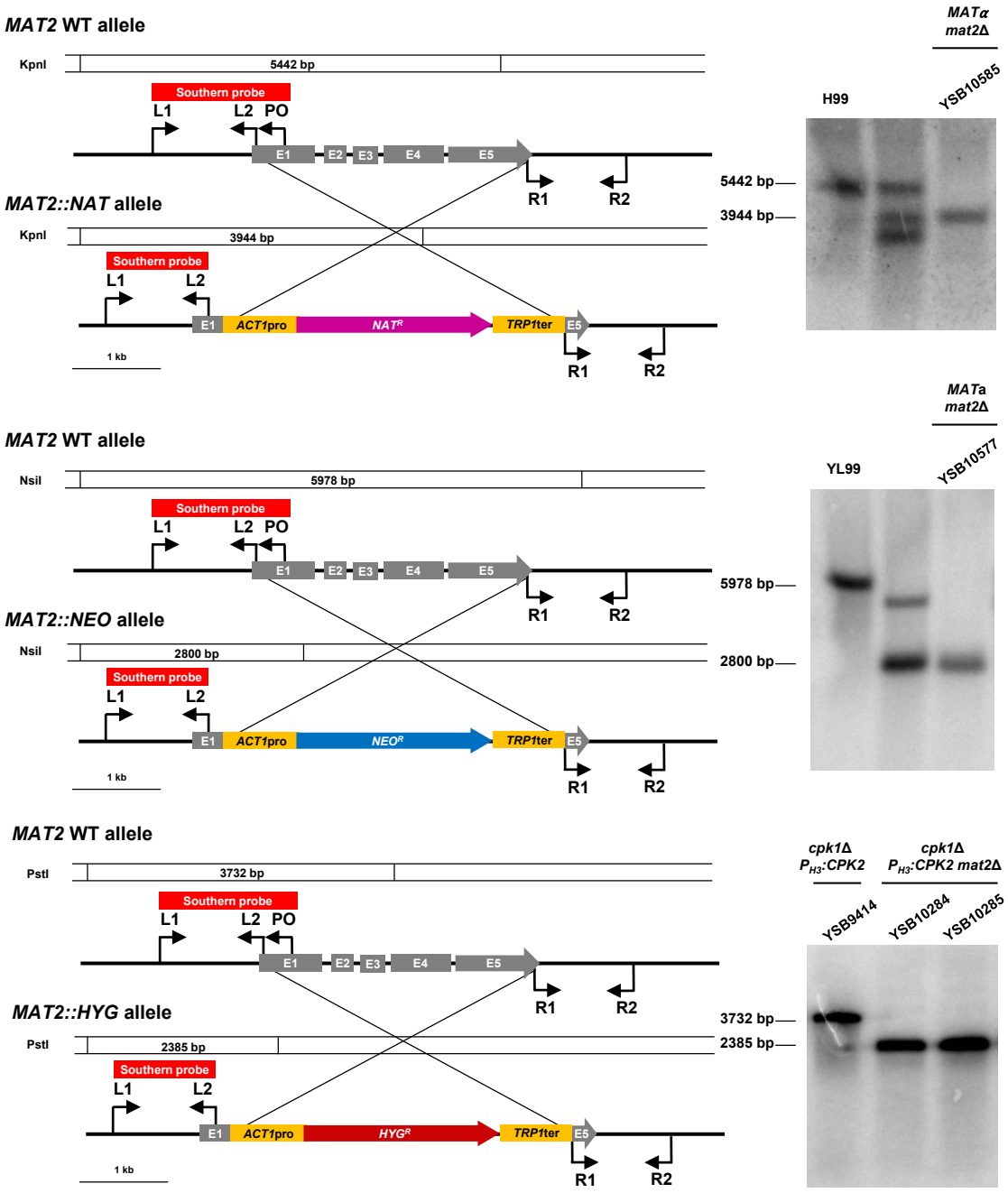

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Jang et al. (Supplementary Figure 1)

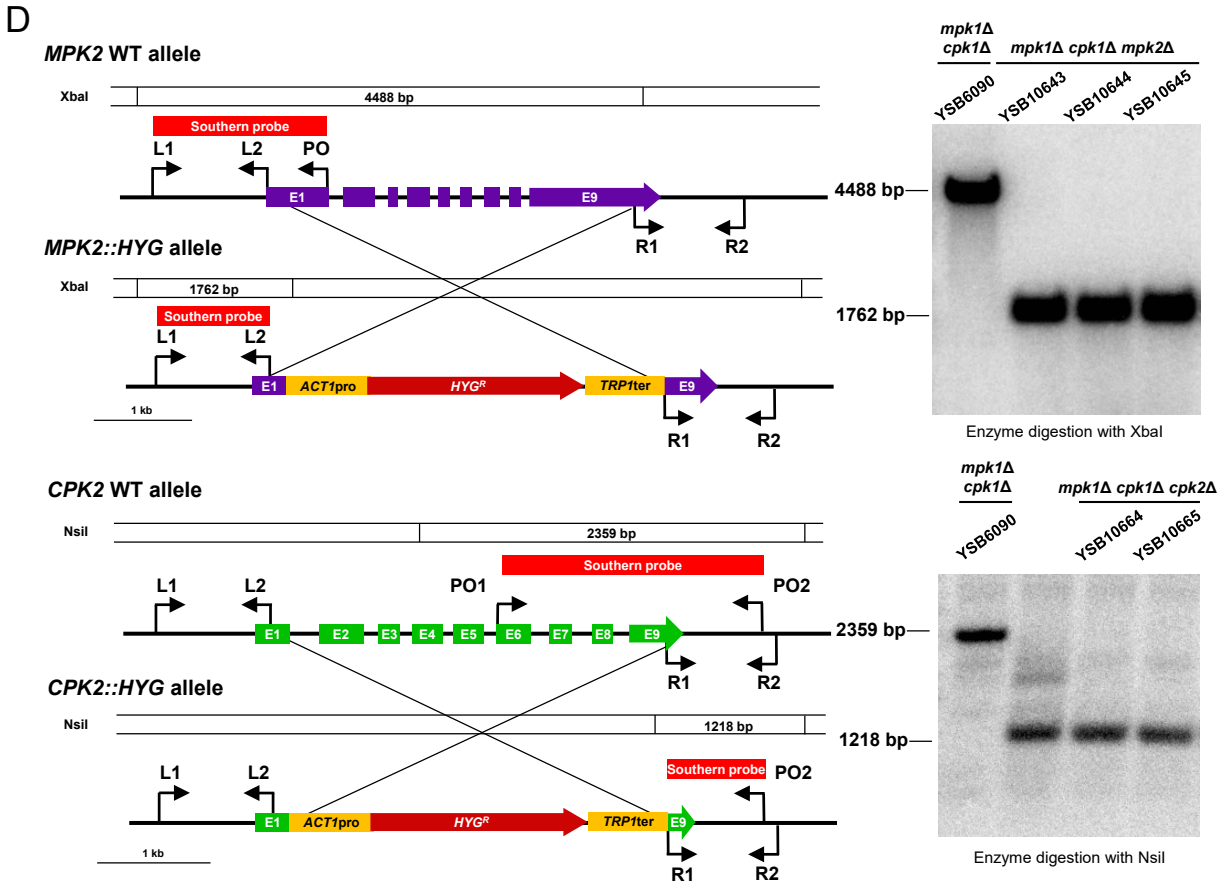

Figure S1. Construction of mutant strains were established through Southern blot analysis. The target MAPK genes were replaced with neomycin or hygromycin resistance genes (*NEO*^{R} or *HYG*^{R}), and the genes were delivered using the gene gun biolistic transformation method (see Material and Method). Graphical representations depict the strategies for homologous recombination between the wild-type gene and the deletion cassette. The newly constructed strains were verified through diagnostic PCR and further validated by Southern blot using dCTP labeled with the radioactive phosphorus P^{32}. The primer sets used for these procedures are detailed in Table S2.