



S19 Fig: *Pks2* cannot complement the *Pks1* KO mutant ($\Delta Pks1$) in *M. robertsii*. **(A)** qRT-PCR confirmation of overexpression of *Pks2* in $\Delta Pks1$. $\Delta Pks1$ -*Pks2*^{OE}: $\Delta Pks1$ with *Pks2* overexpressed. 1, 2, 3: three independent isolates of $\Delta Pks1$ -*Pks2*^{OE}. The expression level in $\Delta Pks1$ is set to 1. Values with different letters are significantly different ($P < 0.05$, Tukey's test in One-way ANOVA). All assays were repeated three times with three replicates per repeat. **(B)** Colony morphology of $\Delta Pks1$ and the three independent isolates ($\Delta Pks1$ -*Pks2*^{OE}-1, -2 and -3) of $\Delta Pks1$ -*Pks2*^{OE}. Note: all strains produce red conidia. Pictures were taken 18 days after inoculation of 5 μ l of conidial suspension (4×10^7 conidia/ml) on a PDA plate. Scale bars represent 10mm. **(C)** HPLC detection of Compound I $\Delta Pks1$ and the three independent isolates ($\Delta Pks1$ -*Pks2*^{OE}-1, -2 and -3) of $\Delta Pks1$ -*Pks2*^{OE}. Standard: the purified Compound I, indicated by arrow, from the *A. nidulans* transformant TYPZ26.1.