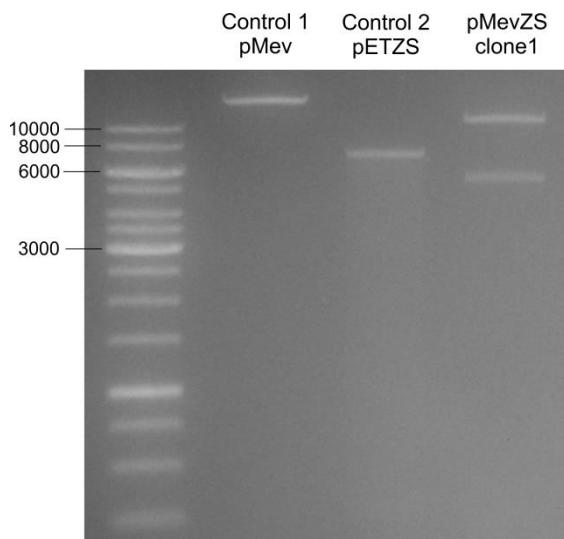
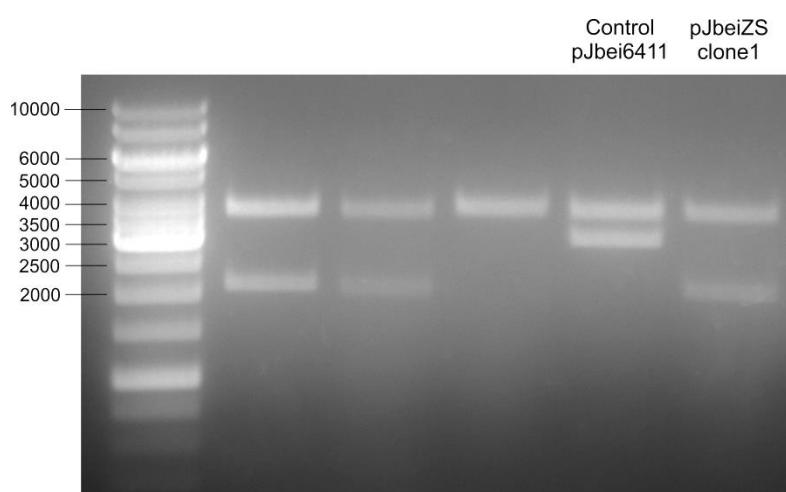


## Supplementary Materials



**Figure S1.** Confirmation of the cloning of the pMevZS by restriction digestion with BglII. Controls shows only one fragment with the respective backbone sizes: pMev 13.1 kb and pETZS 7.3 kb. The vector pMevZS contains two fragments of 5.3 kb and 9.8 kb resulting in a final size of 15.1 kb.



**Figure S2.** Confirmation of the seamless cloning of the pJbeiZS by double restriction digestion with BglII and XhoI. Vector pJbeiZS shows the 4 kb pJbei6411 backbone and the 2 kb insert ZS gene. Similar digestion of control vector pJbei6411 appears with similar backbone size and with an insert cassette of 3 kb consisting of the cytochrome P450 operon (*ahpG*, *ahpH* and *ahpI* genes).

**Table S1.** Comparison of mass spectra and retention indices (RI) between the *in vivo* production of sesquiterpenes ((+)-zizaene and  $\beta$ -acoradiene) and references: authentic sesquiterpenes from the vetiver oil and database references.

