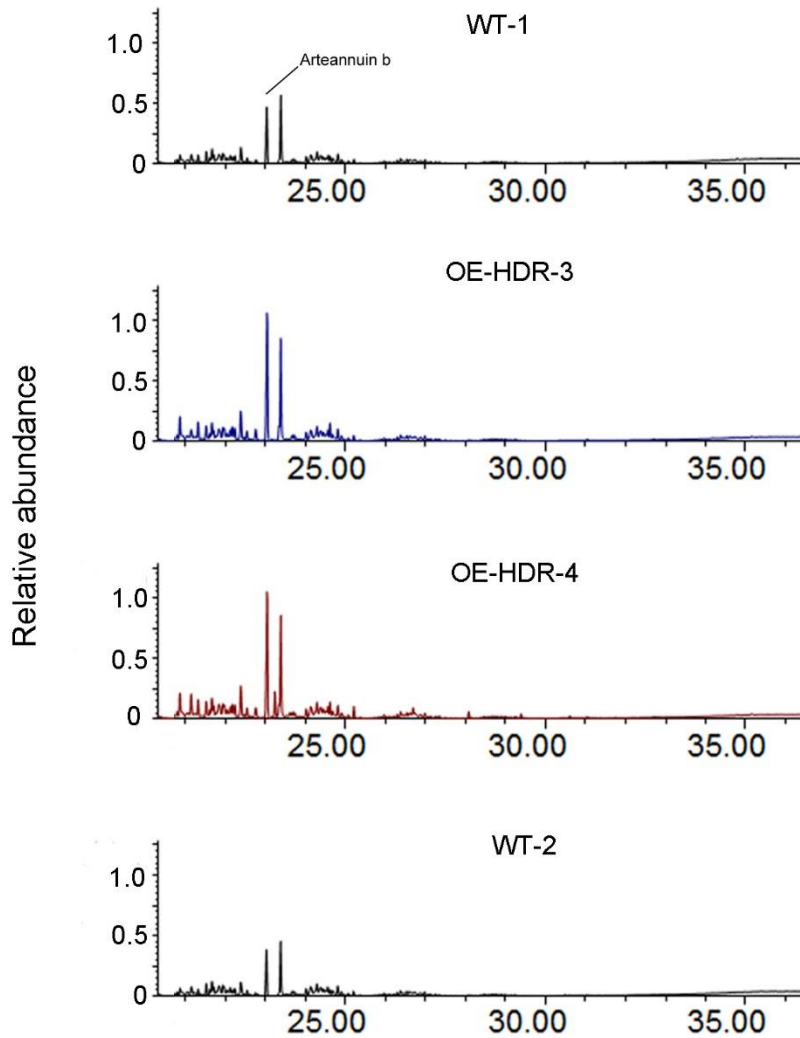


## Supplementary Figures

### **Overexpression and Suppression of *Artemisia annua* 4-Hydroxy-3-Methylbut-2-enyl Diphosphate Reductase 1 Gene (*AaHDR1*) Differentially Regulate Artemisinin and Terpenoid Biosynthesis**

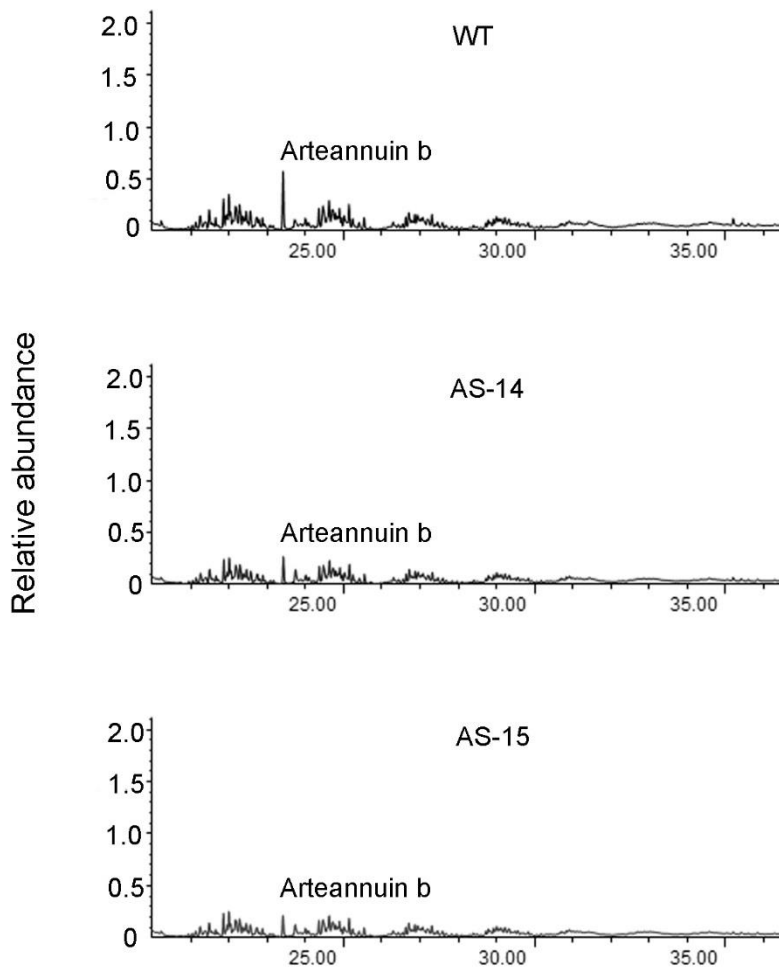
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**Supplementary Figure S1** Total ion chromatographs show arteannuin b and its level increase in *AaHDR1* overexpression transgenic plants compared to wild-type control plants.

PCR, western blot, and metabolite extraction.



### Supplementary Figure S2

Total ion chromatographs show arteannuin b and its level increase in *AaHDR1* anti-sense transgenic plants compared to wild-type control plants.



**Supplementary Figure S3** Anti-sense transgenic vs. wild-type plants grown in the phytotron after 9 weeks of transferring from baby jar to pot soil. These plants were used for leaf samples for metabolite extraction and metabolic profiling.