



Figure S1. Branches of *PpEBB1-oe* poplars are grown out in subculture.

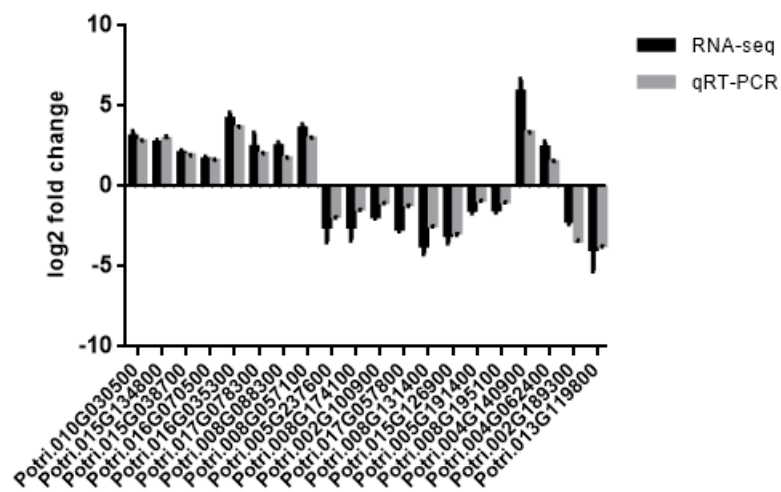


Figure S2. Verification of RNA-seq results via qRT-PCR.

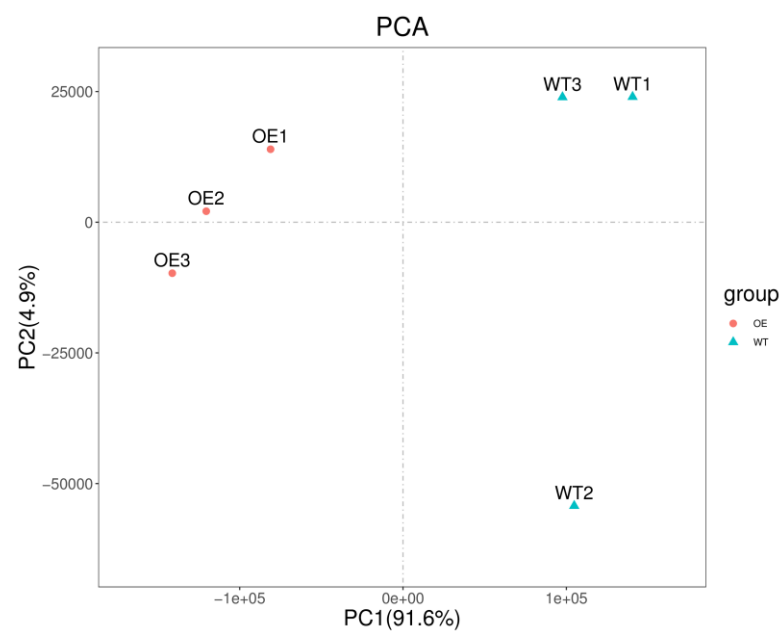


Figure S3. Verification of RNA-seq results via PCA.

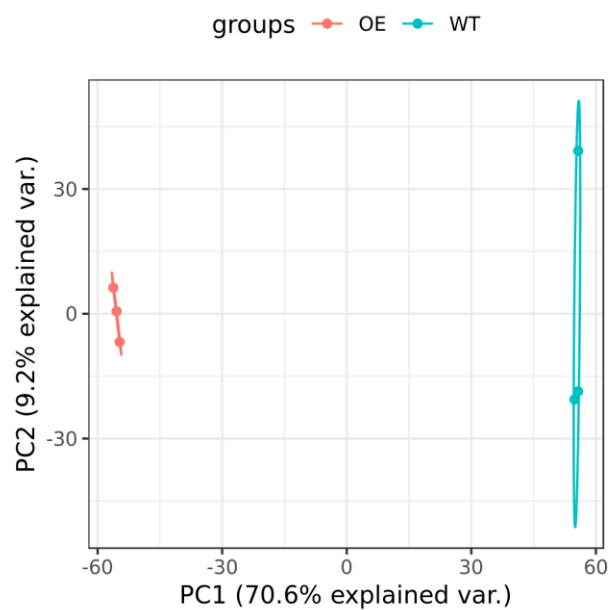


Figure S4. Verification of proteomics results via PCA.

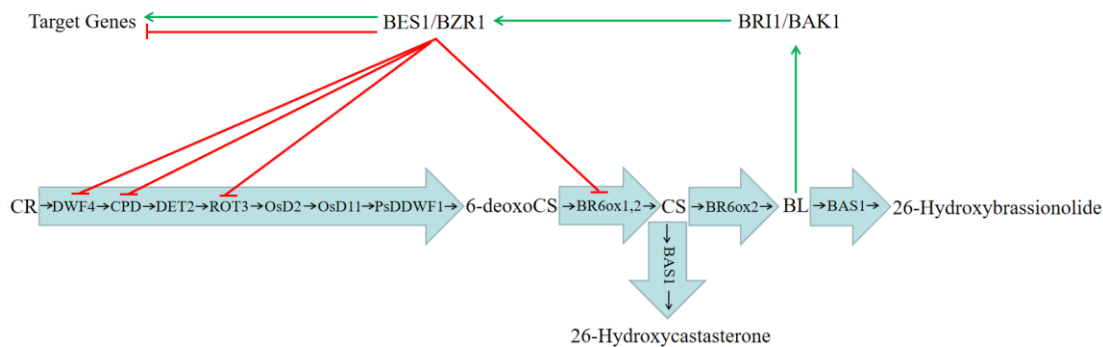


Figure S5. Simplified brassinosteroid biosynthetic pathway according to Zhao and Li (2012).

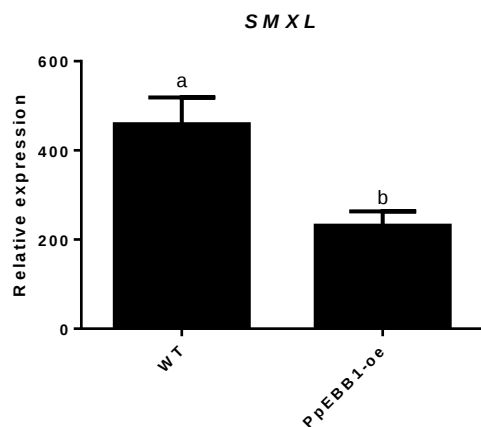


Figure S6. *SMXL* was downregulated in *PpEBB1-oe* poplar.

Table S1. Primers used for qRT-PCR in this study.

| Gene name        | Forward primer       | Reverse primer         |
|------------------|----------------------|------------------------|
| Potri.010G030500 | CATTCGTATCAGAGCGGGT  | CACAATCGCCTCATTTG      |
| Potri.016G035300 | TTATGGCAATGACCTCGG   | CAGCACTCTTTGGGTGTAGC   |
| Potri.017G078300 | GTCAACATTGCCCAACACT  | CTGAAGATGGTGCCACAGT    |
| Potri.015G038700 | CAAGGTTCCACCATTACCA  | AGGTCCCTACCATCTTCAGC   |
| Potri.008G088300 | TGCTACGAGATTAGGTGCG  | GGGCAATGTGTTGGAAGA     |
| Potri.015G134800 | CAAAGGAAGACGCAACTGA  | GGGTCCATCATAATCTGCC    |
| Potri.008G057100 | TCACAATAAACGGACACCG  | ACCCTGAAAGACAATGACTGAC |
| Potri.016G070500 | GCTGAACTGGCTGGACATT  | TCCTTTCCCTCTGCTTCCT    |
| Potri.005G237600 | GCTGAAATGGCTCGTCAA   | GCTGGTGTGATGAATCCTTC   |
| Potri.008G174100 | ATGATGGATGTCTGGTGGG  | CTTTGGCAATGGAACCGT     |
| Potri.002G100900 | CAGTATCGGCTCTTCTCGTG | TGAGGTGCTTCTTCCTGCT    |
| Potri.017G057800 | TCACTTGATGCTGCTGAACT | TGCCAGGAGGAATAACCA     |
| Potri.008G131400 | CCTTTGGCTCGCTACACTTA | GGGTTTCCTTCCTTGTC AAC  |
| Potri.015G126900 | TCGCCGAATCTATGGTTATC | TAAGAAGCCAAGTGCGGT     |
| Potri.005G191400 | CAATGGGAACTGCGTGT    | TTCTTCTCTTCAGCGGCA     |
| Potri.008G195100 | CATCTTGCTCGTGCCTACA  | CACATCCTCAATCTCCTTGC   |
| Potri.004G140900 | CAAGATTTGTGCTGGTGACT | ACGGATTCCATACTGGGA     |
| Potri.004G062400 | CACACTGGTTCCATAAGCG  | GGTAGACGAGGGCATAGATG   |
| Potri.002G189300 | GCCAGGAATGGAGTCAAGTT | CAATGCGGTAACCCTCAAC    |
| Potri.013G119800 | AATACATCATCTGGCGGC   | ATTGTGTCCTCCAAGTCCT    |
| PtActin          | GATTTGTCCCTCGCGCTGT  | TCGGTATAATGACCCTTGCC   |