Supplementary Material



**Supplementary Figure 1.** Structural analysis of 10 GH3 genes in *Trametes trogii*S0301.



**Supplementary Figure 2.** Domain prediction and comparison analysis of 10 GH3 genes in *Trametes trogii*S0301.



**Supplementary Figure 3** Analysis of transformation rate (A) and products contents (B) of phenolic glycosides with different concentration of recombinant TtBGL3 at 37°C for 12 h.



**Supplementary Figure 4** Analysis of transformation rate (A) and products contents (B) of phenolic glycosides with different incubation time after adding 10 U/mL recombinant TtBGL3 at 37°C.

**Table S1** The distribution of the putative signal peptides in of the GH3 gene family.

|  |  |  |  |
| --- | --- | --- | --- |
| **Transcript ID/****Genebank number** | **Amino Acid Sequence** | **Cleavage site** | **D-score** |
| **T\_trogii\_00539** | **MVFRLTASLLLLAGTVLG↓QS** | **18 and 19** | **0.6650** |
| **T\_trogii\_00566** | **MAVLALAPALVALVYALALGSA↓QS** | **22 and 23** | **0.4296** |
| **T\_trogii\_01687** | **MANGLRRLAALLAALVLGAASVQA↓YG** | **24 and 25** | **0.8426** |
| **T\_trogii\_01689** | **MANGLRRLAALLPALAVGAASVQA↓QA** | **24 and 25** | **0.4951** |
| **T\_trogii\_07129** | **MRALSFALLFLFSVGGYA↓SS** | **18 and 19** | **0.6354** |
| **T\_trogii\_08757** | **MRLSVFCALFAILANA↓KR** | **16 and 17** | **0.9176** |
| **T\_trogii\_08766** | **MALVLNTRLSALCALLLAVSASA↓QP** | **23 and 24** | **0.6960** |
| **T\_trogii\_14312** | **-** | **-** | **0.0032** |
| **T\_trogii\_12914** | **-** | **-** | **0.0012** |
| **T\_trogii\_08451** | **-** | **-** | **0.0012** |

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