**Table S4. Differential expressed genes enriched in the top KEGG pathways specific for transgenic *R1*, *R3a*, and *R3b* lines under CN152 infection.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene ID** | **Log2FC** | **Regulated** | **Gene annotation** | **Transgenic lines and the top KEGG pathway** |
| PGSC0003DMG400002111 | 3.4 | up | CYP86A33 fatty acid omega-hydroxylase  | TR1, Cutin, suberine and wax biosynthesis |
| PGSC0003DMG400007113 | -1.12 | down | Fatty acyl-CoA reductase 3  |
| PGSC0003DMG400007405 | 1.69 | up | Acyl CoA reductase  |
| PGSC0003DMG400008885 | -2.1 | down | Fatty acyl-CoA reductase 2  |
| PGSC0003DMG400031731 | 2.81 | up | Feruloyl transferase  |
| PGSC0003DMG400001948 | -1.92 | down | Copalyl diphosphate synthase  | TR3a, Diterpenoid biosynthesis |
| PGSC0003DMG400005698 | -1.13 | down | Gibberellin 3-oxidase  |
| PGSC0003DMG400021095 | 1.5 | up | Gibberellin 2-oxidase 1  |
| PGSC0003DMG400027631 | -1.68 | down | Gibberellin 2-oxidase  |
| PGSC0003DMG400027632 | -1.59 | down | Gibberellin 2-oxidase 2  |
| PGSC0003DMG400003871 | -1.54 | down | Pectate lyase  | TR3b, Pentose and glucuronate interconversions |
| PGSC0003DMG400009178 | -1.05 | down | Pectinesterase  |
| PGSC0003DMG400010771 | -1.67 | down | Pectate lyase  |
| PGSC0003DMG400012640 | -2.64 | down | Pectate lyase P18  |
| PGSC0003DMG400015230 | -1.24 | down | Pectate lyase  |
| PGSC0003DMG400015815 | -1.11 | down | Pectase lyase  |
| PGSC0003DMG400020372 | -4.35 | down | Polygalacturonase 7  |
| PGSC0003DMG400025967 | -2.01 | down | Pectinesterase  |
| PGSC0003DMG400029645 | -1.86 | down | Pectase lyase  |
| PGSC0003DMG400031065 | -3.2 | down | Pectate lyase  |
| PGSC0003DMG400031816 | -2.19 | down | Pectinesterase  |
| PGSC0003DMG402017934 | -1.1 | down | Pectinesterase  |
| PGSC0003DMG402023481 | -1.7 | down | Pectate lyase  |
| PGSC0003DMG400029645 | 1.86 | down | Pectase lyase  |  |