**Table S2. Differential expressed genes enriched in amino sugar and nucleotide sugar metabolism (sot00520) pathway specific for transgenic *R1*, *R3a*, and *R3b* lines under 89148 infection.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene ID** | **Log2FC** | **Regulated** | **Gene annotation** | **Transgenic lines** |
| PGSC0003DMG400000735 | 2.07  | up | Glucose-1-phosphate adenylyltransferase  | TR1 |
| PGSC0003DMG400004659 | -1.49  | down | UDP-D-glucuronic acid 4-epimerase  | TR1 |
| PGSC0003DMG400008673 | -2.21  | down | Endochitinase (Chitinase)  | TR1 |
| PGSC0003DMG400008797 | -4.16  | down | Endochitinase  | TR1 |
| PGSC0003DMG400014401 | -1.73  | down | Glycosyltransferase, CAZy family GT8  | TR1 |
| PGSC0003DMG400015269 | -1.85  | down | Reversibly glycosylated polypeptide GRP 2  | TR1 |
| PGSC0003DMG400025063 | -2.17  | down | Class IV chitinase  | TR1 |
| PGSC0003DMG400026853 | -1.96  | down | Endochitinase 3  | TR1 |
| PGSC0003DMG400026854 | -1.54  | down | Endochitinase 2  | TR1 |
| PGSC0003DMG400029738 | -1.31  | down | LEXYL2 protein  | TR1 |
| PGSC0003DMG400033882 | -1.04  | down | Acidic endochitinase  | TR1 |
| PGSC0003DMG400040317 | -2.81  | down | Endochitinase  | TR1 |
| PGSC0003DMG402001531 | -2.27  | down | Chitinase 134  | TR1 |
| PGSC0003DMG400000735 | 1.26  | up | Glucose-1-phosphate adenylyltransferase  | TR3a |
| PGSC0003DMG400004659 | -1.34  | down | UDP-D-glucuronic acid 4-epimerase  | TR3a |
| PGSC0003DMG400008673 | -1.79  | down | Endochitinase (Chitinase)  | TR3a |
| PGSC0003DMG400008797 | -3.55  | down | Endochitinase  | TR3a |
| PGSC0003DMG400014401 | -1.63  | down | Glycosyltransferase, CAZy family GT8  | TR3a |
| PGSC0003DMG400015269 | -1.33  | down | Reversibly glycosylated polypeptide GRP 2  | TR3a |
| PGSC0003DMG400026853 | -1.68  | down | Endochitinase 3  | TR3a |
| PGSC0003DMG400033882 | -1.24  | down | Acidic endochitinase  | TR3a |
| PGSC0003DMG400040317 | -2.95  | down | Endochitinase  | TR3a |
| PGSC0003DMG402001531 | -1.72  | down | Chitinase 134  | TR3a |
| PGSC0003DMG400000735 | 2.39  | up | Glucose-1-phosphate adenylyltransferase  | TR3b |
| PGSC0003DMG400001529 | 1.37  | up | Acidic 27 kDa endochitinase  | TR3b |
| PGSC0003DMG400004659 | -1.47  | down | UDP-D-glucuronic acid 4-epimerase  | TR3b |
| PGSC0003DMG400008673 | -1.80  | down | Endochitinase (Chitinase)  | TR3b |
| PGSC0003DMG400008797 | -4.15  | down | Endochitinase  | TR3b |
| PGSC0003DMG400011772 | -1.25  | down | Mannose-6-phosphate isomerase  | TR3b |
| PGSC0003DMG400014401 | -1.42  | down | Glycosyltransferase, CAZy family GT8  | TR3b |
| PGSC0003DMG400019063 | 1.08  | up | UDP-sulfoquinovose synthase  | TR3b |
| PGSC0003DMG400019228 | -2.24  | down | Glycosyltransferase, CAZy family GT8  | TR3b |
| PGSC0003DMG400025063 | -1.71  | down | Class IV chitinase  | TR3b |
| PGSC0003DMG400029738 | -1.22  | down | LEXYL2 protein  | TR3b |
| PGSC0003DMG400031084 | 1.11  | up | Glucose-1-phosphate adenylyltransferase small subunit, chloroplastic/amyloplastic  | TR3b |
| PGSC0003DMG400040317 | -2.87  | down | Endochitinase  | TR3b |
| PGSC0003DMG402001531 | -2.67  | down | Chitinase 134  | TR3b |