**Supplemental Table S4 – Chitin biosynthesis, modification and degradation in oomycetes.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| function | CAZy family  | enzymatic activity | *Spa\** | *Pinf* | *P soj* | *Pram* | *Pult* |
|   |  |  |   |  |  |  |   |
| chitin biosynthesis  |   |  |  |  |   |  |
|   | GT 2 | chitin synthase | 6 | 1 | 2 | 2 | 1 |
| chitin modification |   |  |  |  |   |  |
|   | CE 4 | chitin deacetylase | 2 | 1 | 2 | 2 | ND |
| chitin degradation |   |  |  |  |   |  |
|   | GH 18  | chitinase | 12 | 2 | 3 | 2 | 2 |
|   | GH 19 | chitinase | 2 | 2 | 2 | 1 | ND |
|   | GH 20 | β-hexosaminidase | 2 | 0 | 0 | 0 | 0 |
|   | GH 85 | endo-β-N-acetylglucosaminidase | 1 | 1 | 1 | 1 | ND |

\*The species names are Spa- *Saprolegnia parasitica,* Pinf *– Phytophthora infestans,* Psoj *– P. sojae,* Pram *– P. ramorum,* Pult *– Pythium ultimum*.