Table S1: Numerical summary of BLASTmatrix comparative analysis of *F. pseudograminearum* proteins against those of 27 other fungi.

|  |  |  |
| --- | --- | --- |
| **Category** | **Gene count** | **Gene count with bacterial match \*\*\*(>200 bit score)** |
| *Fusarium pseudograminearum* specific | 156 |  |  | 3 |
| Other cereal Pathogen specific\* | 239 |  |  | 17 |
|  | Fusarium specific |  | 214 |  | 11 |
|  |  | *F. pseudograminearum* and *F. graminearum* |  |  | 203 | 8 |
|  |  | *F. pseudograminearum* and *F. verticillioides* |  |  | 1 |  |
|  |  | *F. pseudograminearum*, *F. graminearum* and *F. verticillioides* |  |  | 10 | 3 |
|  | Matches outside fusaria\*\* |  | 25 |  | 6 |
|  |  | *F. pseudograminearum* and only non-fusaria |  |  | 5 | 2 |
|  |  | *F. pseudograminearum*, *F. graminearum* and other non-fusaria |  |  | 15 | 2 |
|  |  | *F. pseudograminearum, F. verticillioides* and other non-fusaria |  |  | 1 |  |
|  |  | *F. pseudograminearum, F. graminearum, F. verticillioides* and other non-fusaria |  |  | 4 | 2 |
| Non-cereal pathogen exclusive matches | 32 |  |  |  |
|  | *Fusarium* lineage matches |  | 24 |  |  |
|  | *F. pseudograminearum* and only non-fusaria |  | 8 |  |  |

\*A BIT score of >200 was required in at least one pathogen other than *F. pseudograminearum* for inclusion in this category

\*\*Genes in other cereal pathogens included those also with a BIT score cut off of >100

\*\*\*>200 bit score was used for bacterial matches