**Table S1. NCBI-accession numbers for *A. fumigatus* Fbx-proteins and their homologues in other species identified by NCBI-BLAST.** Query coverage describes the percentage of the alignment, which covers the primary amino acid sequence of *A. fumigatus* F-box proteins. Identity shows the degree of similarity between the identified F-box protein compared to the respective F-box protein of *A. fumigatus*, which was calculated with ClustalW alignment.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F-box protein** | **Organism** | **Accession#** | **Query coverage** | **Identity** |
|  |  |  |  |  |
| **Fbx15** | ***A. fumigatus* Af293** | XP\_754210.1 | **100%** | **100%** |
|  | ***A. clavatus* NRRL 1** | XP\_001271331.1 | **99%** | **72.8%** |
|  | ***A. terreus* NIH2624** | XP\_001210996.1 | **100%** | **69.8%** |
|  | ***A. flavus* NRRL3357** | XP\_002375930.1 | **100%** | **64.5%** |
|  | ***A. oryzae* RIB40** | XP\_001727634.1 | **100%** | **64.5%** |
|  | ***A. niger* CBS 513.88** | XP\_001393757.1 | **99%** | **64.1%** |
|  | ***A. nidulans* FGSC A4** | XP\_660109.1 | **88%** | **59.8%** |
|  | ***P. chrysogenum* Wisconsin 54-1255** | XP\_002559957.1 | **99%** | **43.6%** |
|  | ***N. crassa* OR74A** | XP\_958675.2 | **88%** | **24.7%** |
|  |  |  |  |  |
| **Fbx23** | ***A. fumigatus* Af293** | XP\_751686.1 | **100%** | **100%** |
|  | ***A. clavatus* NRRL 1** | XP\_001272005.1 | **100%** | **75.6%** |
|  | ***A. niger* CBS 513.88** | XP\_001401882.2 | **79%** | **65.5%** |
|  | ***A. nidulans* FGSC A4** | XP\_663197.1 | **100%** | **65.1%** |
|  | ***A. terreus* NIH2624** | XP\_001213115.1 | **87%** | **64.1%** |
|  | ***A. oryzae* RIB40** | XP\_001820179.2 | **69%** | **63.7%** |
|  | ***A. flavus* NRRL3357** | XP\_002374252.1 | **82%** | **62.0%** |
|  | ***P. chrysogenum* Wisconsin 54-1255** | XP\_002564622.1 | **90%** | **58.1%** |
|  | ***M. musculus*** | XP\_006526676.1 | **47%** | **29.7%** |
|  | ***H. sapiens*** | XP\_011538622.1 | **47%** | **29.7%** |
|  |  |  |  |  |
| **GrrA** | ***A. fumigatus* Af293** | XP\_750347.1 | **100%** | **100%** |
|  | ***A. clavatus* NRRL 1** | XP\_001269564.1 | **100%** | **89.1%** |
|  | ***A. flavus* NRRL3357** | XP\_002383125.1 | **97%** | **83.0%** |
|  | ***A. oryzae* RIB40** | XP\_001816943.2 | **97%** | **82.3%** |
|  | ***A. niger* CBS 513.88** | XP\_001398838.2 | **100%** | **80.5%** |
|  | ***A. terreus* NIH2624** | XP\_001212207.1 | **99%** | **80.3%** |
|  | ***A. nidulans* FGSC A4** | ABC25061.1 | **100%** | **78.3%** |
|  | ***P. chrysogenum* Wisconsin 54-1255** | XP\_002558634.1 | **99%** | **76.6%** |
|  | ***N. crassa* OR74A** | XP\_961582.3 | **86%** | **52.9%** |
|  | ***S. cerevisiae* S288c** | NP\_012623.1 | **81%** | **37.0%** |
|  | ***H. sapiens*** | XP\_011523694.1 | **77%** | **26.6%** |
|  | ***M. musculus*** | XP\_006534361.1 | **77%** | **25.6%** |
|  |  |  |  |  |
| **SconB** | ***A. fumigatus* Af293** | XP\_755744.1 | **100%** | **100%** |
|  | ***A. clavatus* NRRL 1** | XP\_001275741.1 | **100%** | **83.2%** |
|  | ***A. terreus* NIH2624** | XP\_001208767.1 | **94%** | **80.9%** |
|  | ***A. niger* CBS 513.88** | XP\_001399618.2 | **94%** | **79.5%** |
|  | ***A. flavus* NRRL3357** | XP\_002379815.1 | **100%** | **78.8%** |
|  | ***A. oryzae* RIB40** | XP\_001821629.1 | **93%** | **78.7%** |
|  | ***A. nidulans* FGSC A4** | XP\_663963.1 | **99%** | **77.6%** |
|  | ***P. chrysogenum* Wisconsin 54-1255** | XP\_002558093.1 | **89%** | **62.3%** |
|  | ***N. crassa* OR74A** | XP\_962825.2 | **91%** | **50.4%** |
|  | ***S. cerevisiae* S288c** | NP\_012218.1 | **84%** | **42.2%** |
|  | ***M. musculus*** | XP\_006501721.1 | **78%** | **29.2%** |
|  | ***H. sapiens*** | XP\_011530388.1 | **78%** | **27.6%** |