**Table S3. Fungal PC1 top 20 genes, ranked by highest to lowest loading value (0.084 – 0.062). All have homologs in O. kimflemingiae with peak RPKM during live manipulation (de Bekker et al. 2015). Comments related to putative functions are from Uniprot (Bateman 2019) and Interpro (Finn et al. 2017).**

|  |  |  |  |
| --- | --- | --- | --- |
| **BLAST** | **PFAM** | **Secretion** | **Comments** |
| MFS transporter | PF07690|MFS\_1 |  | Small solute transporter |
| protein kinase domain protein |  | SignalP, SSP |  |
| aromatic prenyl transferase | PF11991|Trp\_DMAT |  | Cluster 18 (aflatrem) |
| GPI anchored serine-rich protein |  |  |  |
| G-protein coupled receptor protein | PF00002|7tm\_2 |  |  |
| SCP-like extracellular protein | PF00188|CAP | SignalP | Cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein |
| alpha-ketoglutarate-dependent taurine dioxygenase | PF02668|TauD |  |  |
| putative enterotoxin | PF01375|Enterotoxin\_a | SignalP | Highly expressed and most homologous enterotoxin |
| amidohydrolase family protein | PF04909|Amidohydro\_2 |  |  |
| P450 monooxygenase | PF00067|p450 |  | Cluster 18 (aflatrem) |
| prenyl transferase | PF00348|polyprenyl\_synt |  | Cluster 18 (aflatrem) |
| P450 monooxygenase | PF01494|FAD\_binding\_3, PF00067|p450 |  | Cluster 18 (aflatrem) |
| beta-lactamase family protein | PF11954|DUF3471, PF00144|Beta-lactamase |  | Antibiotic resistance |
| P450 monooxygenase | PF00067|p450 |  | Cluster 18 (aflatrem) |
| hypothetical protein CDD80\_6012 |  | SignalP, SSP |  |
| hypothetical protein CDD80\_6620 |  | SignalP, SSP |  |
| tyrosinase 2 | PF00264|Tyrosinase | SignalP | Associated with melanin production, stress and immune interactions |
| carbohydrate-binding module family 19 protein |  |  |  |
| AtmB protein |  |  | Cluster 18 (aflatrem) |
| Pyruvate/Phosphoenolpyruvate kinase | PF13714|PEP\_mutase, PF00463|ICL |  |  |

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