|  |  |  |  |
| --- | --- | --- | --- |
| AC | Pfam\_ID | # proteins | Description |
| PF07714 | Pkinase\_Tyr | 1,714 | Molecular Function: protein kinase activity (GO:0004672);Molecular Function: ATP binding (GO:0005524);Biological Process: protein phosphorylation (GO:0006468) |
| PF00651 | BTB | 1,076 | Molecular Function: protein binding (GO:0005515) |
| PF08238 | Sel1 | 921 | Sel1-like |
| PF00069 | Pkinase | 795 | Molecular Function: protein kinase activity (GO:0004672);Molecular Function: ATP binding (GO:0005524);Biological Process: protein phosphorylation (GO:0006468) |
| PF07534 | TLD | 793 | NULL |
| PF07707 | BACK | 502 | BTB/Kelch-associated |
| PF00078 | RVT\_1 | 254 | Molecular Function: RNA binding (GO:0003723);Molecular Function: RNA-directed DNA polymerase activity (GO:0003964);Biological Process: RNA-dependent DNA replication (GO:0006278) |
| PF00076 | RRM\_1 | 192 | Molecular Function: nucleic acid binding (GO:0003676) |
| PF00075 | RnaseH | 189 | Molecular Function: nucleic acid binding (GO:0003676);Molecular Function: ribonuclease H activity (GO:0004523) |
| PF00400 | WD40 | 188 | WD40 repeat; subgroup |

**Table S8. Summary of top ten Interpro domains in the annotated unique *R. irregularis* proteins.**