

Supplementary Material

Table S1. SignalP gene lds for each genome, individual gene numbers (per column)

Table S2. Counts for putative CAZymes for *B. bassiana* isolates and fungal references

Table S3. Chitinase KEEG validated specific counts for *B. bassiana* isolates and other fungal references

Figure S1. GenomeScope plot for eight *B.bassiana* isolates. Each isolate (depicted with a yellow square) indicates a single peak demonstrating haploidy and an overall optimal kmer distribution under the blue curve.

Figure S2. Orthofinder overall distribution for eight *B. bassiana* genomes and two references (*B.bassiana* AREF 8028 and *C. militaris*), figure produced in R.

Figure S3. OrthoVenn2 diagram for *B.bassiana* isolates, *B.bassiana* ARSEF 2860 and *C.militaris* reference genomes.