



Genomic map of the *TRI5* gene cluster. The map shows a linear arrangement of genes: *Zn2-C6-TF*, *oxygenase*, α/β -hydrolase, *TRI5*, *oxygenase*, *transporter*, and *anhydase*. The *TRI5* gene is highlighted in purple. The entire cluster is 21.2 kb in size.

The figure displays a phylogenetic tree on the left, rooted with *B. bassiana* ARSEF2860, and a comparison of *tri5* gene structures on the right. The tree is based on a 1000 bp region of the *tri5* gene. The species names are listed to the right of the tree, with some highlighted in grey. The *tri5* gene structures are shown as horizontal bars with colored boxes representing exons and lines representing introns. The structures are color-coded: blue for *tri5* genes, red for *tri5* genes, and orange for *tri5* genes. The structures are arranged in groups corresponding to the species in the tree.

Species and *tri5* Gene Structure Details:

- B. bassiana* ARSEF2860: *tri5* (blue box)
- T. virens* Gv29-8: *tri5* (blue box)
- T. pleuroticola* Tr1: *tri5* (blue box)
- T. pleuroti* TPhu1: *tri5* (blue box)
- T. harzianum* CBS226.95: *tri5* (blue box)
- T. harzianum* TR274: *tri5* (blue box)
- T. guizhouense* NJAU4742: *tri5* (blue box)
- T. atrobrunneum* ITEM908: *tri5* (blue box)
- T. afroharzianum* T6776: *tri5* (blue box)
- T. atroviride* IMI206040: *tri5* (blue box)
- T. gamsii* A5MH: *tri5* (blue box)
- T. gamsii* T6085: *tri5* (blue box)
- T. hamatum* GD12: *tri5* (blue box)
- T. asperellum* TR356: *tri5* (blue box)
- T. asperellum* CBS433.97: *tri5* (blue box)
- T. arundinaceum* IBT40837: *tri5* (blue box)
- T. brevicompactum* IBT40841: *tri5* (blue box)
- T. citrinoviride* TUCIM6016: *tri5* (blue box)
- T. longibrachiatum* ATCC18648: *tri5* (blue box)
- T. parareesei* CBS125925: *tri5* (blue box)
- T. reesei* RUTC-30: *tri5* (blue box)
- T. reesei* QM6a: *tri5* (blue box)