The endophytic fungus isolate, ZP5SE, recently described in Rehman et al. 2008 was misidentified identified as *Neurospora crassa*. The 28S ribosomal gene sequence of the isolate shows 100% sequence similarity with GenBank accession *Neurospora crassa* M38154. However, there are three additional 28S ribosomal gene sequences deposited in GenBank as *N. crassa* U40124 (culture NRRL 13141), *N. crassa* AF286411 (culture MUCL 19026), and *N. crassa* AY681158.1 (culture ICMP 6360). Phylogenetic analyses shows that these three additional sequences are closest relatives (100% similarity) and that this group is more distantly related to the ZP5SE and *N. crassa* M38154 sequences (88%-91% similarity). In phylogenetic analysis, the ZP5SE sequence and M38154 form a sister group to many Sordariaceae, including species of *Neurospora*, *Gelasinospora* and *Sordaria* (Figure 1). As a result, ZP5SE cannot yet be assigned to a particular genus or species on the basis of the 28S ribosomal gene sequence. In addition, we infer that the GenBank sequence M38154 must be incorrectly attributed to *N. crassa*.

![Figure 1. Phylogenetic analysis comparing the fungal endophyte (ZP5SE) with related fungi using partial SSU and LSU rDNA sequences from Figure 4 of Rehman et al. 2008. *N. crassa* AY681158 represents three GenBank sequences of *N. crassa* (AY681158, U40124 and AF286411), and is nestled with *Gelasinospora* species, as expected. *N. crassa* M38154 is quite distant from the three other *N. crassa* sequences and likely is misattributed to *N. crassa*.](image)

References: