

## Supplementary Material

### Appendix 1

This file provides the alignment of DNA sequences of amplicons from reference endophyte isolates obtained with primer pairs designed to EST-SSR locus NCESTA1AB04. Each of the haplotypes represent a consensus sequence obtained from haploid isolates by direct sequence analysis of the forward and reverse product and from heteroploid isolates by sequence analysis of multiple clones containing the product. The predicted corresponding protein sequence for the EST is shown. The SSR array is shaded in dark grey and the primer sequences are underlined. The isolate from which each haplotype was obtained, as well as molecular size (bp) is indicated prior to the sequence string. Isolates are as follows: 9309: *N. coenophialum* isolate 9309; 99201: *N. coenophialum* isolate 9920/1; 99202: *N. coenophialum* isolate 9920/2; 99203: *N. coenophialum* isolate 9920/3; 8907: FaTG-2 isolate 8907; 9601: *N. lolii* isolate 9601; Ellett: *N. lolii* isolate Ellett H5837; NAf6: *N. lolii* isolate North African 6; Vic2: *N. lolii* isolate Victorian 2; 9414: *N. uncinatum* isolate 9414; 93032: *Neotyphodium* isolate 9303/2; 9727: *Neotyphodium* isolate 9727; 9728: *Neotyphodium* isolate 9728; 9707: *E. baconii* isolate 9707; 9630: *E. bromicola* isolate 9630; 9401: *E. clarkii* isolate 9401; 9412: *E. festucae* isolate 9412; 9436: *E. festucae* isolate 9436; 9713: *E. festucae* isolate 9713; 9718: *E. festucae* isolate 9718; 9722: *E. festucae* isolate 9722; 9301: *E. sylvatica* isolate 9301; 9635: *E. typhina* isolate 9635.

### Appendix 2

This file provides the alignment of DNA sequences of amplicons from reference endophyte isolates obtained with primer pairs designed to EST-SSR locus NCESTA1FH03. Details are as described for Appendix 1.

### Appendix 3

This file provides the alignment of DNA sequences of amplicons from reference endophyte isolates obtained with primer pairs designed to EST-SSR locus NCESTA1GA07. Details are as described for Appendix 1. In addition, the intron

present in genomic DNA sequence variants is shown below the dotted line in the EST, with the consensus splice sites shaded in light grey and the invariant 5'-GT-AG-3' motifs indicated in bold.

#### **Appendix 4**

This file provides the alignment of DNA sequences of amplicons from reference endophyte isolates obtained with primer pairs designed to EST-SSR locus NLESTA1GF09. Details are as described for Appendix 3.

#### **Appendix 5**

This file provides the alignment of DNA sequences of amplicons from reference endophyte isolates obtained with primer pairs designed to EST-SSR locus NLESTA1NF04. Details are as described for Appendix 1.