

APPENDIX 5.3 SEQUENCE DATA

All the sequence data is supplied on the attached CD in Sequencher (Appendix 5.3.1-5.3.6) or MacVector (Appendix 5.3.7-5.3.8) format.

- 5.3.1 'ggs1' *ggs1* sequences, containing *Nl**ggs1*, *Efggs1* and *Etggs1*
contains: Lp19-ggpps1 (*N. lolii ggs1*)
FI1-ggs1 (*E. festucae ggs1*)
E8-ggs1 (*E. typhina ggs1*)
+ additional sequence from other isolates
- 5.3.2 'CAG' The CAG repeat contained within *ggs1*
contains: sequence generated for Table 3.2
- 5.3.3 'Cluster 1' The *N. lolii* and *E. festucae ltm* cluster 1
contains: Lp19 cluster 1 (*N. lolii ltm* cluster 1)
FI1 cluster (*E. festucae ltm* cluster 1)
ltmG-RT (RT-PCR analysis of *ltmG*)
ltmM-RT (RT-PCR analysis of *ltmM*)
ltmK-RT (RT-PCR analysis of *ltmK*)
- 5.3.4 'Retro' Sequences of lambda clones isolated with the Rua probe
contains: consensus sequences from λ CY224
consensus sequences from λ CY225
consensus sequences from λ CY226
consensus sequences from λ CY227
consensus sequences from λ CY229
consensus sequences from λ CY231
+ additional sequences from these clones not in a contig
- 5.3.5 'Cluster 2 and 3' The *N. lolii ltm* cluster 2 and 3
contains: Lp19 ltm cluster 3-2 (*N. lolii ltm* cluster 3-2)
EST-ltmC (EST data supplied by GS)
EST-ltmJ (EST data supplied by RJ and GS)
EST-ltmP (EST data supplied by RJ and GS)
RT-ltmB (RT-PCR analysis of *ltmB*)
RT-ltmC (RT-PCR analysis of *ltmC*)
RT-ltmD (RT-PCR analysis of *ltmD*)
RT-ltmE (RT-PCR analysis of *ltmE*)
RT-ltmJ (RT-PCR analysis of *ltmJ*)
RT-ltmP (RT-PCR analysis of *ltmP*)
RT-ltmQ (RT-PCR analysis of *ltmQ*)
Chitin syn (*N. lolii* chitin synthase *chsV*)

+ additional sequences that were generated

5.3.6 'PR tub' Perennial ryegrass tubulin genes

contains: PRG-tub1 (Perennial ryegrass *tub1*)
PRG-tub2 (Perennial ryegrass *tub2*)

5.3.7 'Cluster 1' MacVector file of *N. lolii* Lp19 *Itm* cluster 1

5.3.8 'Cluster 2 and 3' MacVector file of *N. lolii* Lp19 *Itm* cluster 2 and 3