

ATGTCCACGTCGAAAACCTCAACGGTTCTACTATACCCATAGTCAAAGAC
M S H V E N L N G S T I P I V K D
CTTGGCTGGCTATGTTGCTCAAGCCAGGAACCTTCTACTACGGGACTT
L W S G Y V A Q A Q E L S T T R L
CTCCTTCTCGCCGCATCAACCTT**CCTGTGATTGCCATTGTA****CTCAATGTT**
L L L A A I N L P V I A I V L N V
CTCCGCTCAAGTGCTTATCTCGCAACAATCTGAGCCTCCGGTGGTCTTT
L R Q V L I P R N K S E P P V V F
CATTGGTTACCTATCATA**GGCTCAGTGTTCATACGGCAATGACCC**TATC
H W L P I I G S A V S Y G N D P I
AATTTCTTTTCAAATGTCGTGAAAGTATGGCAACGTTTCACATTCAAT
N F F F K C R E K Y G N V F T F I
CTCTTGGTCGTCGGCTCACTGTTCCTGGGAGCCCAAGGCAATAATTTCT
L F G R R V T V A L G A Q G N N F
ATTCTTGGAGAAAATCGACTGTGTTCAAGCTGAGGAGGCATACACACAC
I L G G K S T V F S A E E A Y T H
CTCACCATCCCGTTTTTGGAAAGGATGTGGTTACGATGTGCCAACGAA
L T T P V F G K D V V Y D V P N E
GTTTTCATGGAACAGAAAAGTTTGTCAAAGTCGGTTTGTCTACGGAAAAC
V F M E Q K K F V K V G L S T E N
TTGGGAGCATACGTCGGCATGATTGAAGATGAAGTTTGGAAATTCATCGAG
L R A Y V G M I E D E V V E F I E
AATGATCCGACATTCAAAGTCTACCAGGACAACGATATAAACGAATGGGGT
N D P T F K V Y Q D N D I N E W G
TCATTGACGATTTGAAGATTTGGCTGAAATCACCATTCTTACCGCGTCG
S F D V L K I L A E I T I L T A S
AGAACTCTCAAGCCAGGATGTCAGGTGCAATCTCGATAAGAAGTTTGGC
R T L Q G Q D V R S N L D K K F A
CAGCTGTACAATGATCTGGACGGTGGTTTCACTCCCACTCACTTCTGTTC
Q L Y N D L D G G F T P I N F L F
CCCAACCTGCCTCTGAAAACATCTCGCAACCGCATGTTGCACAGAAGAAG
P N L P L E N Y R K R D V A Q K K
ATGAGCGAGTTCTTCAAAGTTCATCGAACAGCGAAGGCAAGGCCATTCA
M S E F F Q S F I E Q R R Q G H S
GACTATGACCAAGACATGATAGAAGTCTCATGGAACAGAAGTACCGCTCC
D Y D Q D M I E A L M E Q K Y R S
GGCAAGGGTTGAAGACCATGAAATGCCACATCATGATCGCTCTTCTC
G K G L K D H E I A H I M I A L L
ATGGCTGGTCAGCACACTAGTTCGGCAACCGGATCTGGGCTCTGCTTAC
M A G Q H T S S A T G S W A L L H
TTGGCCGACAATCCTGACATTGCCGAGGCTTGTACCAGGAACAAGTCAAG
L A D N P D I A E A L Y Q E Q V K
CACTTTAGCAATCCCAGCGCAGCTTCCGCTCTATGCTTATGAAGAGCTT
H F S N P D G S F R S M S Y E E L
AGAGAGCTCCCTGTTTGGACTCTGTCATCGGTGAGACCTTCGTGTACAT
R E L P V L D S V I R E T L R V H
CCTCCATCCACAGCATTATGCGATACGTCGGTACGATGTCCTCCGTTCTC
P P I H S I M R Y V R D D V P V P
CCCACACTTTCGGCTCCTTCAGAAGACCGGACATATATCGTTCCCAAGGGT
P T L S A P S E D R T Y I V P K G
CACTACGTAATGATCTCCCGCAGTCAGCCAGATGGATCTCTCATATGG
H Y V L A S P A V S Q M D P L I W
AGAAACCCAGAGAAGTGGGATCCTGCCGCTGGTCGGATCCTGAGGGTATT
R N P E K W D P A R W S D P E G I
GCTGCACAGGCCTTGAAGACCTACCTCGACGAGAACGGTGAAGAAGATCGAT
A A Q A L K T Y V D E N G E K I D
TACGGTTTCGGTGTGTCAGCAAAGGAACTGAGAGTCCCTATCAACCATTC
Y G F G A V S K G T E S P Y Q P F
GGTGTGGCAACATAGATGATTGGAGAACAGTTCGCTTACTTGAACATG
G A G K H R C I G E Q F A Y L Q L
GGTACCCTTCTGTCTACCTTGTTCGTAGAATGGAGTTGGCATCCCGACT
G T L L S T F V R R M E L R I P T
GGTGTGCCT**GCTCAGAACTACCATACCATGATTACGATGCC****AAAACGGCCT**
G V P A Q N Y H T M I T M P K T F
AGACCTATTCCTACAGGAGACGCAAGGCAAACTGA
R R I H Y R R R K A N *

Figure S2 - Nucleotide sequence of the ERG11 gene of *M. perniciosa* and its corresponding amino acid sequence. Sequence regions marked in bold and underlined with double lines correspond to the regions used to design primers.