

PhoenixTemp41044.tmp.txt  
SEQUENCE LISTING

<110> BASF Plant Science GmbH  
Hill, Steve

<120> USE OF NEMATODE CHITINASE GENES TO CONTROL PLANT PARASITIC NEMATODES

<130> PF 58957

<160> 6

<170> PatentIn version 3.4

<210> 1

<211> 1053

<212> DNA

<213> Heterodera glycines

<400> 1

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20 25 30

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Ile Arg Pro Leu Thr Asn Asp Gln Ala Lys Lys Leu Thr His Leu Ile  
35 40 45

Leu Ala Phe Ser Thr Pro Asp Ser Gln Gly Asn Leu Ser Pro Leu Ser  
50 55 60

Ser Val Leu Lys Gln Ala Leu Lys Ala Gly Lys Ser Ala Asn Gly Ala  
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Leu Lys Val Met Ile Ala Ile Gly Gly Gly Gly Phe Asp Pro Ala Ile  
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Phe Thr Ser Leu Ala Ser Asn Ser Gly Thr Arg Lys Ser Phe Ile Asn  
100 105 110

Asn Ile Val Ser Tyr Leu Lys Thr Asn Glu Leu Asp Gly Cys Asp Ile  
115 120 125

Asp Trp Glu Phe Pro Thr Ser Ser Asp Lys Ala Ile Phe Val Thr Phe  
130 135 140

Leu Arg Asp Leu Lys Lys Ala Met Ala Pro Ser Gly Ala Val Leu Ser  
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Met Ala Ser Ala Ala Ser Ala Phe Tyr Leu Asp Pro Gly Tyr Asp Leu  
165 170 175

Pro Gly Ile Glu Ser Ala Val Asp Phe Ile Asn Val Met Cys Tyr Asp  
180 185 190

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195 200 205

Phe Lys Gly Gly Ser Ala Asp Pro Ser Asp Thr Leu Asn Ser Asn Trp  
210 215 220

Thr Met Asn Tyr His Leu Met Lys Val Tyr Asn Arg Ala Lys Leu Asn  
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Met Gly Val Pro Phe Tyr Gly Lys Ser Trp Thr Asn Val Gly Ala Pro  
245 250 255

Leu Asn Gly Asp Gly Leu Trp Arg Gln Leu Gly Thr Tyr Gly Thr Glu  
260 265 270

Leu Ala Trp Arg Asn Met Gly Lys Ser Phe Asp Met Thr Lys Thr Thr  
275 280 285

Tyr His Lys Thr Ala Lys Thr Ala Tyr Ile Tyr Asp Thr Ala Thr Lys  
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Asn Phe Leu Thr Phe Asp Asn Pro Gln Ser Leu Lys Asp Lys Ala Lys  
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## PhoenixTemp41044.tmp.txt

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 gttccaagag acgttataat cgtatgcaat catatgcttg cgtagatttt ccaacagttt 180  
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## PhoenixTemp41044.tmp.txt

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20 25 30

Gly Ile Arg Pro Leu Thr Asn Asp Gln Ala Lys Lys Leu Thr His Leu  
35 40 45

Ile Leu Ala Phe Ser Thr Pro Asp Ala Gln Gly Asn Leu Ser Pro Leu  
50 55 60

Ser Ala Val Leu Lys Gln Ala Leu Lys Ala Gly Lys Ser Ala Asn Gly  
65 70 75 80

Ala Leu Lys Val Met Ile Ala Ile Gly Gly Gly Gly Phe Asp Pro Ser  
85 90 95

Ile Phe Thr Ser Leu Ala Ser Asn Ser Gly Thr Arg Lys Ser Phe Ile  
100 105 110

PhoenixTemp41044.tmp.txt

Asn Asn Ile Val Ser Tyr Leu Lys Thr Asn Glu Leu Asp Gly Cys Asp  
115 120 125

Ile Asp Trp Glu Phe Pro Thr Ser Asn Asp Lys Ala Ile Phe Val Thr  
130 135 140

Phe Leu Arg Asp Leu Lys Lys Ala Leu Ala Pro Ser Gly Ala Val Leu  
145 150 155 160

Ser Met Ala Ser Ala Ala Ser Ala Phe Tyr Leu Asp Pro Gly Phe Asp  
165 170 175

Leu Pro Gly Ile Glu Ser Ala Val Asp Phe Ile Asn  
180 185