

# SEQUENCE LISTING

<110> BPS GmbH  
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 Wiig, Aaron  
 McCaig, Bonnie  
 Markus, Frank  
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<120> pEARLII1-LIKE PATHOGEN CONTROL GENES AND METHODS OF USE IN PLANTS

<130> PF 58852-PCT

<160> 21

<170> PatentIn version 3.4

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35 40 45

Tyr Pro Ser Pro Ser Ile Pro Ser Pro Ser Val Pro Thr Pro Ser Val  
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Pro Thr Pro Ser Val Pro Thr Pro Ser Val Pro Ser Pro Asn Pro Thr  
65 70 75 80

Pro Val Thr Pro Pro Arg Thr Pro Gly Ser Ser Gly Asn Cys Pro Ile  
85 90 95

Asp Ala Leu Arg Leu Gly Val Cys Ala Asn Val Leu Ser Gly Leu Leu  
100 105 110

Asn Val Gln Leu Gly Gln Pro Ser Ala Gln Pro Cys Cys Ser Leu Ile  
115 120 125

Gln Gly Leu Val Asp Leu Asp Ala Ala Ile Cys Leu Cys Thr Ala Leu  
130 135 140

Arg Ala Asn Val Leu Gly Ile Asn Leu Asn Val Pro Ile Ser Leu Ser  
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Thr Pro Arg His Lys His Lys Pro Val Lys Pro Ser Pro Ser Gly Gly  
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Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser  
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Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly  
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Gly Ser Gly Gly Ser Gly Ala Ser Cys Pro Arg Asp Ala Leu Lys Leu  
 85 90 95

Gly Val Cys Ala Asn Val Leu Asn Gly Leu Leu Asn Val Thr Leu Gly  
 100 105 110

Gln Pro Pro Val Thr Pro Cys Cys Ser Leu Leu Asn Gly Leu Val Asp  
 115 120 125

Leu Glu Ala Ala Val Cys Leu Cys Thr Ala Leu Lys Ala Asn Ile Leu  
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Gly Pro Asn Pro Lys Pro Arg Pro Asn Pro Asn Pro Asn Pro Asn Pro
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Ser Pro Ser Gly Ser Cys Pro Arg Asp Ala Leu Lys Leu Gly Val Cys
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Ala Asn Val Leu Asn Leu Val Asn Val Thr Leu Gly Gln Pro Pro Val
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Thr Pro Cys Cys Thr Leu Leu Asp Gly Leu Val Asp Leu Glu Ala Ala
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Asn Leu Pro Ile Ser Leu Ser Leu Leu Leu Asn Val Cys Ser Arg Lys
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35 40 45

Asp Ala Leu Lys Leu Gly Val Cys Ala Asn Val Leu Asn Leu Val Asn  
50 55 60

Val Lys Leu Gly Ser Pro Pro Thr Leu Pro Cys Cys Asn Leu Ile Lys  
65 70 75 80

Gly Leu Ala Asp Leu Glu Val Ala Ala Cys Leu Cys Thr Ala Leu Lys  
85 90 95

Ala Asn Val Leu Gly Ile Asn Leu Asn Val Pro Ile Ser Leu Ser Val  
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Ile Leu Phe Phe Thr Leu Thr Ala Gly Thr Asn Cys Arg Cys Asn Pro
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Val Pro Thr Pro Ser Val Pro Ser Pro Tyr Val Pro Thr Pro Ser Val
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Pro Ser Pro Ser Val Pro Thr Pro Ser Val Pro Ser Pro Ser Val Pro
65          70          75          80

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Ser Pro Asn Pro Thr Pro Val Ile Pro Pro Arg Thr Pro Gly Ser Ser
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Gly Asn Cys Pro Ile Asp Ala Leu Arg Leu Gly Val Cys Ala Asn Val
          100          105          110

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Leu Ser Gly Leu Leu Asn Val Gln Leu Gly Gln Pro Ser Pro Gln Pro
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Cys Cys Ser Leu Ile Gln Gly Leu Val Asp Leu Asp Ala Ala Val Cys

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135

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Ser Asn Phe Gln Cys Ala  
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Thr Pro Lys Pro Lys Pro Lys Pro Lys Ser Thr Gly Ser Cys Pro Lys  
 35 40 45

Asp Thr Leu Lys Leu Gly Val Cys Ala Asn Val Leu Lys Asp Leu Leu  
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Lys Ile Gln Leu Gly Thr Pro Pro Val Lys Pro Cys Cys Ser Leu Leu  
 65 70 75 80

Asn Gly Leu Val Asp Leu Glu Ala Ala Ala Cys Leu Cys Thr Ala Leu  
85 90 95

Lys Ala Lys Val Leu Gly Ile Asn Leu Asn Val Pro Val Ser Leu Ser  
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Pro Gly Lys His Asn Lys Gln Lys Pro Ser Pro Thr Pro Thr Thr Gly  
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Thr Cys Pro Lys Asp Ala Leu Lys Val Gly Val Cys Val Asn Ala Leu  
50 55 60



Asn Leu Leu Asn Gly Leu Thr Pro Gly Thr Pro Pro Val Thr Pro Cys  
65 70 75 80

Cys Ser Leu Ile Glu Gly Leu Val Asp Leu Glu Ala Ala Ile Cys Leu  
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Cys Thr Ala Leu Lys Ala Ser Val Leu Gly Ile Asn Leu Thr Leu Pro  
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Lys Ser His His Lys Lys Pro Ala Thr Pro Ser Pro Lys Pro Thr Cys  
35 40 45

Lys Asp Ala Leu Lys Leu Lys Val Cys Ala Asn Val Leu Asp Leu Val  
50 55 60

Lys Val Ser Leu Pro Pro Thr Ser Asn Cys Cys Ala Leu Ile Lys Gly  
65 70 75 80

Leu Val Asp Leu Glu Ala Ala Val Cys Leu Cys Thr Ala Leu Lys Ala  
85 90 95

Asn Val Leu Gly Ile Asn Leu Asn Val Pro Ile Ser Leu Asn Val Val  
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Ser Pro Lys Pro Lys His Lys Pro Ser Pro Ser Pro Lys Pro Lys Pro  
35 40 45

Asn Pro Lys Pro Lys Pro Thr Pro His Pro Ser Pro Ser Pro Ala Ile  
50 55 60

Ala Lys Cys Pro Arg Asp Ala Leu Lys Leu Gly Val Cys Ala Asn Val  
65 70 75 80

Leu Asn Gly Leu Leu Asn Val Thr Leu Gly Lys Pro Pro Val Glu Pro  
85 90 95

Cys Cys Thr Leu Ile Gln Gly Leu Ala Asp Leu Glu Ala Ala Ala Cys  
100 105 110

Leu Cys Thr Ala Leu Lys Ala Asn Ile Leu Gly Ile Asn Leu Asn Ile  
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Thr Cys Pro Arg Asp Val Leu Lys Leu Ser Thr Cys Ser Asn Val Leu  
35 40 45

Asn Leu Ile Asn Leu Lys Leu Gly Ala Pro Ala Met Arg Pro Cys Cys  
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Ser Ile Leu Phe Gly Leu Ile Asp Leu Asp Val Ala Val Cys Leu Cys  
65 70 75 80

Thr Ala Leu Lys Leu Ser Leu Leu Gly Ile Thr Ile Asp Thr Pro Ile  
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