

Title (en)  
PLANT DISEASE RESISTANCE ASSOCIATED GENES AND USES THEREOF

Title (de)  
PFLANZLICHE KRANKHEITSRESISTENZ-ASSOZIIERTE GENE UND DEREN VERWENDUNGEN

Title (fr)  
NOUVEAUX GENES DE VEGETAUX ET LEURS UTILISATIONS

Publication  
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Application  
**EP 00909334 A 20000307**

Priority  
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Abstract (en)  
[origin: WO0053762A2] Homologues of the Arabidopsis NIM1 gene, which is involved in the signal transduction cascade leading to systemic acquired resistance (SAR), are isolated from *Nicotiana tabacum* (tobacco), *Lycopersicon esculentum* (tomato), *Brassica napus* (oilseed rape), *Arabidopsis thaliana*, *Beta vulgaris* (sugarbeet), *Helianthus annuus* (sunflower), and *Solanum tuberosum* (potato). The invention further concerns transformation vectors and processes for expressing the NIM1 homologues in transgenic plants to increase SAR gene expression and enhance broad spectrum disease resistance.  
[origin: WO0053762A2] Homologues of the *Arabidopsis NIM1* gene, which is involved in the signal transduction cascade leading to systemic acquired resistance (SAR), are isolated from *Nicotiana tabacum* (tobacco), *Lycopersicon esculentum* (tomato), *Brassica napus* (oilseed rape), *Arabidopsis thaliana*, *Beta vulgaris* (sugarbeet), *Helianthus annuus* (sunflower), and *Solanum tuberosum* (potato). The invention further concerns transformation vectors and processes for expressing the *NIM1* homologues in transgenic plants to increase SAR gene expression and enhance broad spectrum disease resistance.

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IPC 8 full level  
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