

Title (en)
HERO RESISTANCE GENE CONFERRING RESISTANCE TO NEMATODES

Title (de)
HERO-RESISTENZGEN GEGEN NEMATODEN

Title (fr)
GENE A HERO-RESISTANCE AUX NEMATODES

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Application
EP 01955207 A 20010608

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Abstract (en)
[origin: WO0194601A2] The invention relates to a *hero* resistance gene and gene fragments thereof, for the biosynthesis of proteins which generate resistance to nematodes, especially Globodera cyst nematodes; to their isolation and to their use for the genetic transformation of susceptible plants such as potato, tomato and aubergine. It was found that the *hero* resistance gene codes the protein sequence according to figure 1. The corresponding gene sequence was used for producing plants with resistance to Globodera cyst nematodes using gene technology.

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Citation (search report)
See references of WO 0194601A2

Citation (examination)
• ERNST K. ET AL: "The broad-spectrum potato cyst nematode resistance gene (Hero) from tomato is the only member of a large gene family of NBS-LRR genes with an unusual amino acid repeat in the LRR region", PLANT JOURNAL, vol. 31, no. 2, July 2002 (2002-07-01), pages 127 - 136
• DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; February 2005 (2005-02-01), SOBCZAK M. ET AL: "Characterization of susceptibility and resistance responses to potato cyst nematode (Globodera spp.) infection of tomato lines in the absence and presence of the broad-spectrum nematode resistance Hero gene.", Database accession no. NLM15720085

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