

Title (en)  
PLANT DEFENSIN VARIANTS

Title (de)  
VARIANTEN VON DEFENSIN AUS PFLANZEN

Title (fr)  
VARIANTES DE DEFENSIN DE PLANTES

Publication  
**EP 1206557 A2 20020522 (EN)**

Application  
**EP 00953273 A 20000731**

Priority  
• GB 0002941 W 20000731  
• GB 9918155 A 19990802

Abstract (en)  
[origin: WO0109174A2] An antimicrobial protein or peptide derived from a plant defensin, or a derivative thereof, characterised in that said protein or peptide comprises one or more of the following replacement amino acid residues selected from the group consisting of: (i) a tryptophan residue at position 32; (ii) a valine, leucine, isoleucine, tryptophan, phenylalanine, lysine, arginine, tyrosine, methionine, cysteine or histidine residue at position 34; (iii) an isoleucine, tryptophan, lysine, arginine, valine, leucine, phenylalanine or histidine residue at position 35; (iv) a tryptophan residue at position 36; (v) a tryptophan, glycine, threonine, tyrosine, glutamine, lysine, arginine, phenylalanine or histidine residue at position 37; (vi) a leucine, isoleucine, tryptophan, phenylalanine, valine or cysteine residue at position 38; (vii) a leucine, isoleucine, tryptophan, phenylalanine, methionine, lysine, arginine, tyrosine or histidine residue at position 39; (viii) a tryptophan residue at position 40; (ix) an isoleucine, a tryptophan, phenylalanine, serine, threonine, tyrosine, glutamine, asparagine, lysine, arginine, histidine at position 41; and/or (x) a valine, leucine, isoleucine, tryptophan, phenylalanine, tyrosine, asparagine, lysine, arginine, serine or threonine residue at position 42; where said amino acid residues are not found naturally at said positions in the antimicrobial protein or peptide, with the proviso that the antimicrobial proteins do not comprise only a replacement arginine residue at position 37, 39 or 42. These proteins or peptides are useful in agriculture and pharmaceuticals.

IPC 1-7  
**C12N 15/82**; **C07K 14/415**; **A01N 65/00**; **A01H 5/00**

IPC 8 full level  
**A01H 5/00** (2006.01); **A01N 37/46** (2006.01); **A01N 63/00** (2006.01); **A01N 65/00** (2009.01); **A61K 38/00** (2006.01); **A61P 31/00** (2006.01); **A61P 31/10** (2006.01); **C07K 14/415** (2006.01); **C12N 15/09** (2006.01); **C12N 15/82** (2006.01)

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See references of WO 0109174A2

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