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(54) **POLYNUCLEOTIDE ENCODING A LACTOBACILLUS GASSERI BETA-GLUCURONIDASE POLYPEPTIDE**

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(58) **Field of Search** ..... 536/23.2, 23.7; 435/471, 320.1, 201, 419, 325, 254.2, 252.3

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(57) **ABSTRACT**

The present invention provides isolated  $\beta$ -Glucuronidase (GUS) having activity at acidic pH and nucleic acids encoding the same. The nucleic acids may be isolated from any suitable species, and in a preferable embodiment are isolated from *Lactobacillus gasseri*.

**17 Claims, 6 Drawing Sheets**

