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(54) Title: 2-METHYL-6-SOLANYLBENZOQUINONE METHYLTRANSFERASE AS TARGET FOR HERBICIDES

(57) Abstract: The present invention relates to the use of 2-methyl-6-solanylbenzoquinone methyltransferase which, when absent, brings about retarded growth and chlorotic leaves, as target for herbicides. In this context, there are provided novel nucleic acid sequences comprising SEQ ID NO:5 and SEQ ID NO:7 and corresponding functional equivalents. Moreover, the present invention relates to the use of 2-methyl-6-solanylbenzoquinone methyltransferase and its functional equivalents in a method for identifying herbicidal or growth-regulatory compounds, and to the use of the compounds identified via the method as herbicides or growth regulators.

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