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(54) **REGULATORY SYSTEM FOR INDUCIBLE  
EXPRESSION OF GENES WITH LAMBDOID  
PROMOTERS**

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(57) **ABSTRACT**

The invention relates to a regulation system for inducible expression of genes, comprising a lambdoid promoter, a gene coding for a repressor for the lambdoid promoter and a gene coding for an antirepressor of the repressor, which antirepressor is under the influence of an inducible promoter. The invention further relates to a regulatory replicon, comprising said gene coding for an antirepressor, an expression system, comprising said regulatory replicon, and an expression vector based on a lambdoid promoter, and also to a method for producing a gene product in a heterologous host, by providing a culture of a host comprising a heterologous sequence which codes for the gene product. Providing a culture of a host comprising a heterologous sequence is obtained by putting the expression of the heterologous sequence under the control of a regulation system, a gene coding for a repressor for the lambdoid promoter and a gene coding for an antirepressor, and by inducing the promoter of the antirepressor gene.

**13 Claims, 19 Drawing Sheets**