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(54) Title: NEW GLUTAMINE SYNTHETASE VARIANTS AS SELECTION MARKER

(57) Abstract: The invention relates to a modified mammalian glutamine synthetase comprising a mutation at amino acid position 10 and/or 298 in a mammalian glutamine synthetase, wherein the mutation is selected from the group consisting of R298K, N10S, N10T and N10Q and to an expression vector, a nucleic acid and a eukaryotic host cell encoding said modified mammalian glutamine synthetase and to its use as a selection marker. The invention further relates to methods for preparing stable cell lines, or for producing a protein of interest using said modified mammalian glutamine synthetase for selection.

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