

Title (en)
SOLUBILITY REPORTER GENE CONSTRUCTS

Title (de)
LÖSLICHKEITSREPORTERGEN-KONSTRUKTE

Title (fr)
CONSTRUCTIONS DE GENES RAPPORTEURS DE SOLUBILITE

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Abstract (en)
[origin: WO02061041A2] The present invention provides polynucleotides that a protein solubility response promoter operatively linked to a reporter gene and a genetic reporter system comprising these polynucleotides together with an expression construct for a target protein. The invention also provides cells comprising polynucleotides of the invention and the genetic reporter system. These compositions are useful to monitor the solubility of a target protein in a cell and to identify mutations to the cell or mutations to a polynucleotide encoding the target protein that alters the solubility of the target protein. The invention further provides method to identify variations in a protein biosynthetic process that alter the solubility of a target protein and methods to screen an expression library of recombinant clones to identify clones that express soluble proteins. Finally, the invention discloses a novel method of identifying an antibiotic agent.

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