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(54) Title: PROCESS FOR IMPROVED PROTEIN EXPRESSION BY STRAIN ENGINEERING

(57) Abstract: This invention is a process for improving the production levels of recombinant proteins or peptides or improving the level of active recombinant proteins or peptides expressed in host cells. The invention is a process of comparing two genetic profiles of a cell that expresses a recombinant protein and modifying the cell to change the expression of a gene product that is upregulated in response to the recombinant protein expression. The process can improve protein production or can improve protein quality, for example, by increasing solubility of a recombinant protein.