ENGINEERED BACTERIUM FOR PRODUCING KGF-2 PROTEIN, PREPARATION METHOD THEREFOR, AND USE THEREOF

ABSTRACT

Disclosed in the present invention is an engineered bacterium for producing a KGF-2 protein. The engineered bacterium is *Escherichia coli* transfected with a recombinant vector. The recombinant vector is a pET-30a vector carrying a KGF-2 protein coding sequence, a pET-28a vector carrying a KGF-2 protein coding sequence or a pET-42a vector carrying a KGF-2 protein coding sequence. The *Escherichia coli* is OverExpress C43(DE3) *Escherichia coli*, Rosetta(DE3) *Escherichia coli* or BL21Star(DE3) *Escherichia coli*. The engineered bacterium, when used for producing the KGF-2 protein, has a high expression level of KGF-2, and the plasmid can remain stable during the fermentation production of the KGF-2 protein, thereby stably expressing the KGF-2 protein and achieving the purpose of long-term fermentation production of the KGF-2 protein. In addition, the yield of the KGF-2 protein produced by fermentation with the engineered bacterium is up to 40%-50%, and the engineered bacterium has a good application value.

Fig 68