HETEROGENEOUS POLYPEPTIDE EXPRESSION CASSETTE

ABSTRACT

An object is to provide a signal peptide that can secrete a heterogeneous polypeptide with high efficiency outside the bacterial cell in a bacterium of the genus *Bifidobacterium*, an expression cassette that can secrete a heterogeneous polypeptide with high efficiency outside the bacterial cell, a heterogeneous polypeptide expression vector, a bacterium of the genus *Bifidobacterium* capable of secreting a heterogeneous polypeptide. Means for attaining the object is a bacterium of the genus *Bifidobacterium* transformed by a vector having an expression cassette sequentially comprising a promoter DNA functioning in a bacterium of the genus *Bifidobacterium*, a DNA encoding the secretory signal peptide, a DNA encoding a scFv antibody having an antitumor activity, and a terminator DNA functioning in the bacterium of the genus *Bifidobacterium*; and capable of secreting the scFv antibody with high efficiency outside the bacterial cell.

[No suitable Figure]