ABSTRACT

It is to provide an immunocompetent cell that expresses regulatory factors of immunocompetent cell immune function and possesses all of proliferative potential, viability, and the ability to accumulate a T cell, and an expression vector of regulatory factors of immune function for generating the immunocompetent cell. An immunocompetent cell expressing a cell surface molecule specifically recognizing a cancer antigen, interleukin 7 (IL-7), and CCL19 is generated. Preferably, the cell surface molecule specifically recognizing a cancer antigen is T cell receptor specifically recognizing the cancer antigen, and the immunocompetent cell is a T cell.