

ABSTRACT

The present invention application is related to a hepatic precursor cell and a method and an application for establishing a hepatic precursor cell line. The method for establishing a hepatic precursor cell line comprises: S0: preparing hepatic precursor cells, miscible liquids, and a reprogramming culture medium, wherein the miscible liquids comprises a serum-free medium, polyethyleneimine, and a CLP plasmid; S1: transfecting the hepatic precursor cells with the miscible liquids to obtain transduced hepatic precursor cells; and S2: passing the transduced hepatic precursor cells into the reprogramming culture medium for subculture to obtain immortalized hepatic precursor cells. The present invention application resolves the prior art limitations of immortalization genes, which cannot transform hepatic precursor cells into immortalized cell lines or enable sustained in vitro subculturing.

(Fig. 1)