

High-titer retroviral packaging cells

The present invention relates to non-replicative recombinant retrovirus packaging cells able to grow in suspension in a serum-free medium. In particular, the present invention relates to a human embryonic 293SF-based cell line stably expressing gag and pol gene products from murine Moloney leukemia virus (MLV) and the feline RD114 env gene. This particular combination allows the production of high titer of non-replicative retrovirus pseudotyped and prevents the recombination of plasmids. The recombinant retrovirus produced from these cells are safer and easier to produce for clinical use in gene therapy.
