

ABSTRACT

Disclosed in the present invention is a lentiviral vector applicable to gene therapy of thalassemia and sickle anemia, comprising: a, a minilocus control region,
5 which is a micro regulatory element that is screened from a 16-kb locus control region of a beta globin and does not contain an HS1 region; b, a gene sequence of the beta globin, wherein the gene sequence is as shown in SEQ ID NO. 3; c, a flanking promoter sequence at the upstream of the gene sequence of the beta globin; d, a flanking sequence at the downstream of the gene sequence of the beta globin; e,
10 an insulator sequence from a Foamy virus.

FIG. 1