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(54) 发明名称: 用于逆转录病毒载体的生产细胞和包装细胞及其制备方法

图 1

AA Sleeping Beauty

(57) Abstract: Provided are a production cell for producing a retroviral vector or a lentiviral vector carrying a nucleic acid fragment of interest and a preparation method therefor. The preparation method comprises using a sleeping beauty transposon system and a PiggyBac transposon system to integrate sequences of each gene into the genome of a host cell. Also provided are a nucleic acid fragment of interest and/or an envelope protein replacement system, a method, and a production cell for the retroviral vector. Also provided are a retroviral vector carrying the nucleic acid fragment of interest and use thereof in the preparation of a reagent for delivering the

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(81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

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本国际公布:

- 包括国际检索报告 (条约第21条(3))。
- 包括说明书序列表部分 (细则5.2(a))。

nucleic acid fragment of interest to a cell. Also provided are a packaging/production cell for preparing a lentiviral vector, a preparation method therefor and a method for preparing the lentiviral vector. The transcription of one or more of gag, pol and rev genes and coding sequences of VSV-G is under the sole control of a Tet-On inducible expression system or under the dual control of the Tet-On inducible expression system and a Cumate inducible expression system.

(57) 摘要: 提供了用于生产携带目的核酸片段的逆转录病毒载体或慢病毒载体的生产细胞及制备方法, 包括利用睡美人转座子系统或PiggyBac转座子系统将各基因的序列整合在宿主细胞的基因组中。还提供了用于逆转录病毒载体的目的核酸片段和/或外包膜蛋白替换系统、方法和生产细胞。还提供了携带目的核酸片段的逆转录病毒载体及其在制备用于向细胞递送目的核酸片段的试剂中的用途。还提供了制备用于生产慢病毒载体的包装/生产细胞及其制备方法和生产慢病毒载体的方法, 其中gag、pol和rev基因以及VSV-G的编码序列中的一种或多种的转录在Tet-On诱导表达系统的单独控制下或Tet-On和Cumate诱导表达系统的双重控制下。