

Sequence Listing

<110> SHANGHAI BDGENE TECHNOLOGY CO., LTD.)
 <120> LENTIVIRAL VECTOR APPLICABLE TO GENE THERAPY OF THALASSEMIA AND SICKLE ANEMIA
 <130> DD17030
 <141> 2021-12-15
 <160> 10
 <170> SIPOSequenceListing 1.0

<210> 1
 <211> 3013
 <212> DNA
 <213> Minilocus regulatory element of beta globin

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<210> 2

<211> 476

<212> DNA

<213> Gene sequence of beta globin (optimized intron 2)

<400> 2

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taaatatttt	tgcatataaa	ttgtaactga	tgtaagaggt	ttcatattgc	taatagcagc	360
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<210> 3

<211> 1050

<212> DNA

<213> Gene sequence of beta globin

<400> 3

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<210> 4

<211> 265

<212> DNA

<213> Promoter sequence of beta globin

<400> 4

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gattggccaa	ccctaggggtg	tggctccaca	gggtgaggtc	taagtgatga	cagccgtacc	180
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taagatatat	ctcttggccc	catac				265

<210> 5

<211> 300

<212> DNA

<213> Flanking sequence of beta globin

<400> 5

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aatgtttttt	attaggcaga	atccagatgc	tcaaggccct	tcataatc	ccccagttta	240
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<210> 6
 <211> 36
 <212> DNA
 <213> Insulator sequence from Foamy virus

<400> 6
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<210> 7
 <211> 11290
 <212> DNA
 <213> Lentiviral vector comprising minilocus control region (Artificial Sequence)

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<212> DNA

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