

## LV022

<b>Vector Name</b>	pLenti-III-HA
<b>VectorType</b>	Lentiviral vector
<b>Antibiotic Information</b>	Kanamycin
<b>Sequencing Primers</b>	CMV sequencing primer 5'---CGC AAA TGG GCG GTA GGC GTG---3'
	Reverse sequencing primer 5'---TAG TCA GCC ATG GGG CGG AGA ---3'

*NheI*    *XmaI*    *ClaI*    *MfeI*    *ScaI*  
 5'-- GCT AGC CCC GGG ATC GAT CAA TTG AGT ACT  
*SnaBI*    *KpnI*  
 TAC GTA GGT ACC CCA GTG TGG TGG CCT GCA GGT  
*EcoRI*    *SpeI*    *AgeI*    *SstI*    *SalI*    *EcoRV*  
 GAA TTC ACT AGT ACC GGT AGG CCT GTC GAC GAT  
*ApaI*    *NotI*    *BamHI*    *XbaI*  
 ATC GGG CCC GCG GCC GCT GGA TCC TCT AGA CTG  
*XhoI*    *HA-Tag*  
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 GCT TGA --3'



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2461 gccgcctcgg ctgaocgccc aacgaccccc gccattgac gtcaataatg acgtatgttc
2521 ccaatgtaac gccaataggg actttccatt gacgtcaatg ggtggagtat ttacggtaaa
2581 ctgcccactt ggcagtagat caagtgtatc atagccaag tacgcccctt attgacgtca

```

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//

1 ttttggattgaagccaatatgataatgagggggtggagtttgtgacgtggcggggcgct 60  
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 CCTTGCCCCGCCACTGCATCATCACACCGCCTTCACTACAACGTTACACCGCCTT

BsrGI  
 |  
 BstAUI  
 |  
 SspBI  
 |  
 Bsp1407I  
 |  
 SgrAI  
 |  
 Encap other (162, 310) >>>

121 cacatgtaagcgacggatgtggcaaaagtgaogtttttgggtgctgcgcgggtgacacagg 180  
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 241 aagatttggccattttcgcgggaaaactgaataagaggaagtgaatctgaataattttg 300  
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Eco47III  
 |  
 Aor51HI  
 |  
 FunI  
 |  
 AfeI  
 |

301 tgttactcatagcgcgtaatacggcagacctcagcgttagattattgaagcatttatcag 360  
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amp prom (365, 393) <<<

361 ggttattgtctcatgagcggatacataatttgaatgtatttagaaaaataaacaataggg 420  
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Eco81I  
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 Bse21I  
 |  
 HpaI AxyI  
 | |  
 KspAI Bsu36I  
 | |

421 gttccgcgcacatttccccgaaaagtgccacctgacgttaactataacggctcctaaggt 480  
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PvuI  
 |  
 Ple19I  
 |

601 tacgatcgtgccttattaggaaggcaacagacgggtctgacatggattggacgaaccact 660  
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HIV-1\_5\_LTR other (715, 895) >>>

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721 ctctggttagaccagatctgagcctgggagctctctggctaactaggaaccactgctt 780  
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781 aagcctcaataaagcttgcctttagtcttcaagtagtgtgtgcccgtctgttgtgtgac 840  
 TTCGGAGTATTTTCGAACGGAACCTCAGAAAGTTCATCACACACGGGCAGACAACACTG

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841 tctggtaactagagatcctcagacccttttagtcagtggtgaaatctctagcagtgcc 900
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901 gcccgaaacaggacttgaaagcgaagggaaccagaggagctctctcgacgcaggactc 960
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                                     HIV-1_psi_pack other(1006,1050)>>>
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961 ggcttgctgaagcgcacggcaagaggcagggcgggcgactggtagtacgcaaaaaa 1020
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1021 tttgactagcggaggctagaaggagagatgggtgagagcgtcagttataagcggg 1080
    AAAACTGATCGCCTCCGATCTTCTCTCTACCCACGCTCTCGCAGTCATAATTCCGCC
                                     Bsp68I
                                     |
                                     NruI
                                     |
                                     PspDI
                                     ||
1081 ggagaattagatcgcgatgggaaaaaattcggttaaggccaggggaaagaaaaata 1140
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                                     |
                                     EcoNI
                                     |
                                     XagI
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1441 ggacattggagaagtgaattatataaaataaaagtagtaaaaattgaaccattaggagta 1500
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                                     |
                                     AleI
                                     |
1801 ggttgetctgaaaaactcatttcaccactgctgtgccttggaaatgctagttggagtaat 1860
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2101 atagtttttgcgtactttctatagtgaaatagagtttaggcagggatattcaccattatcg 2160  
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PpuXI  
|  
SanDI  
|  
Psp5II  
|  
PspPPI  
|  
EcoO109I  
|  
PpuMI  
|  
DraII  
|

2161 tttcagaccacacctccaaccccgaggggacccgacaggcccgaaaggaatagaagaagaa 2220  
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AvrII  
|  
AspA2I  
|  
BlnI  
|  
XmaJI  
|

2401 aattcaaaatthttcgggtttttcgaacctagggtcccggttacataacttacggtaaat 2460  
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2461 ggccccctggctgacgcgccaacgacccccgcccattgacgtcaataatgacgtatggt 2520  
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2521 cccatagtaacgccaatagggactttccattgacgtcaatgggtggagtatttacggtaa 2580  
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FauNDI  
|  
NdeI  
|

2581 actgcccacttggcagtacatcaagtgtatcatalgccaagtacgccccctattgacgtc 2640  
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2821 acgtcaatgggagtttgttttggcaccacaaatcaacgggactttccaaaatgtcgtaaca 2880  
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CMV prom(2885,2966)>>>

2881 actccgccccattgacgcaaatggcggttagcggtgacgggtggaggtctatataagca 2940  
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2941 gagctcgttttagtgaaccgtcagatcgccctggagacgccatccacgtgttttgacctcc 3000  
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tetO reg(3022,3061)>>>

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ClaI MfeI  
| |  
BspDI  
| |  
Bsa29I  
| |  
Bsp106I  
| |





Eco91I  
|  
PspEI  
|  
EcoO65I  
|  
BstPI  
|

3661 ccggaccgccacatcgagcgggtcaccgagctgcaagaactcttctcacgcgctcggg 3720  
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3781 ccggagagcgtcgaagcggggcggtgttcgccgagatcgcccgcgcatggccgagttg 3840  
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4201 attcttaactatgttctccttttaacgctatgtggatacgtctttaaagcctttgtat 4260  
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4501 tggacaggggctcggctgttgggcaactgcaaatccggtggtgtgctggggaagctgacg 4560  
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4621 taagtccctcggccctcaatccagcggaccttctcctcccgccgctgctgcccgtctg 4680  
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4681 cggccttctccgctctcgccttgcctcagaogagtcggatctcctttgggcccgcct 4740  
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delta\_U3 other (4756,4808)>>>  
|

4741 ccccgcgttccggatggaagggttaattcactoccaacgaatacaagatctgctttttg 4800  
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HIV-1\_5\_LTR other (4809,4989)>>>  
|

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4861 ggaacccactgcttaagcctcaataaagcttgccttgagtgcttcaagtagtgtgtgcc 4920  
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4921 gttctgtgtgactctggtaactagagatccctcagacccttttagtcagtgtggaaaa 4980  
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4981 tctctagcagtagtagttcatgtoatcttattattcagttattataacttgcaagaaat 5040  
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5101 atagcatcaaaatttcacaataaagcatttttttactgcattctagttgtggtttgt 5160  
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6661 ggctatctggacaaggaaaacgcaagcgcaaaagagaaagcaggttagcttgcagtgaggct 6720
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6781 tggggcgccctctggttaaggttgggaagccctgcaaagtaaactggatggctttctcgc 6840
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                                         |
                                         BclI
                                         |
                                         FbaI
                                         |
6841 gccaaaggatctgatggcgaggggatcaagctctgatcaagagacaggtatgaggatcgtt 6900
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                                         NTP_II marker(6908,7696)>>>
                                         |
                                         ORF_3 rf(2)(6905,7699)>>>
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6901 tcgcatgattgaacaagatggattgcacgcaggttctccggccgcttgggtggagaggct 6960
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6961 attcggctatgactgggacacaacagacaatcggctgctctgatgcccgcgtgttccggct 7020
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7741 aaatggcggaaatcggcaacatccctataaatcaaaagaatagaccgcataggggttga 7800
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                                         f1 origin(7804,8109)<<<
                                         |
7801 gtgtgttccagtttggaaacagagtcactatataagaacgtggactccaacgtcgaag 7860
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8101 gcttaatgcgcccgtacagggcgctccattcgccattcaggatcgaattaattcttaat 8160  
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8161 taacatcatcaataatatacctt 8183  
ATTGTAGTAGTTATTATATGGAA

5'-LTR  
Start: 486 End: 2177  
Original Location Description:  
486..2177  
CMV Pro  
Start: 2433 End: 3061  
Original Location Description:  
2433..3061  
Psv40e  
Start: 3244 End: 3546  
Original Location Description:  
3244..3546  
Pur  
Start: 3547 End: 4146  
Original Location Description:  
3547..4146  
3'-LTR  
Start: 4147 End: 5232 (Complementary)  
Original Location Description:  
complement(4147..5232)  
Kan  
Start: 6905 End: 7696  
Original Location Description:  
6905..7696

GENTAUR