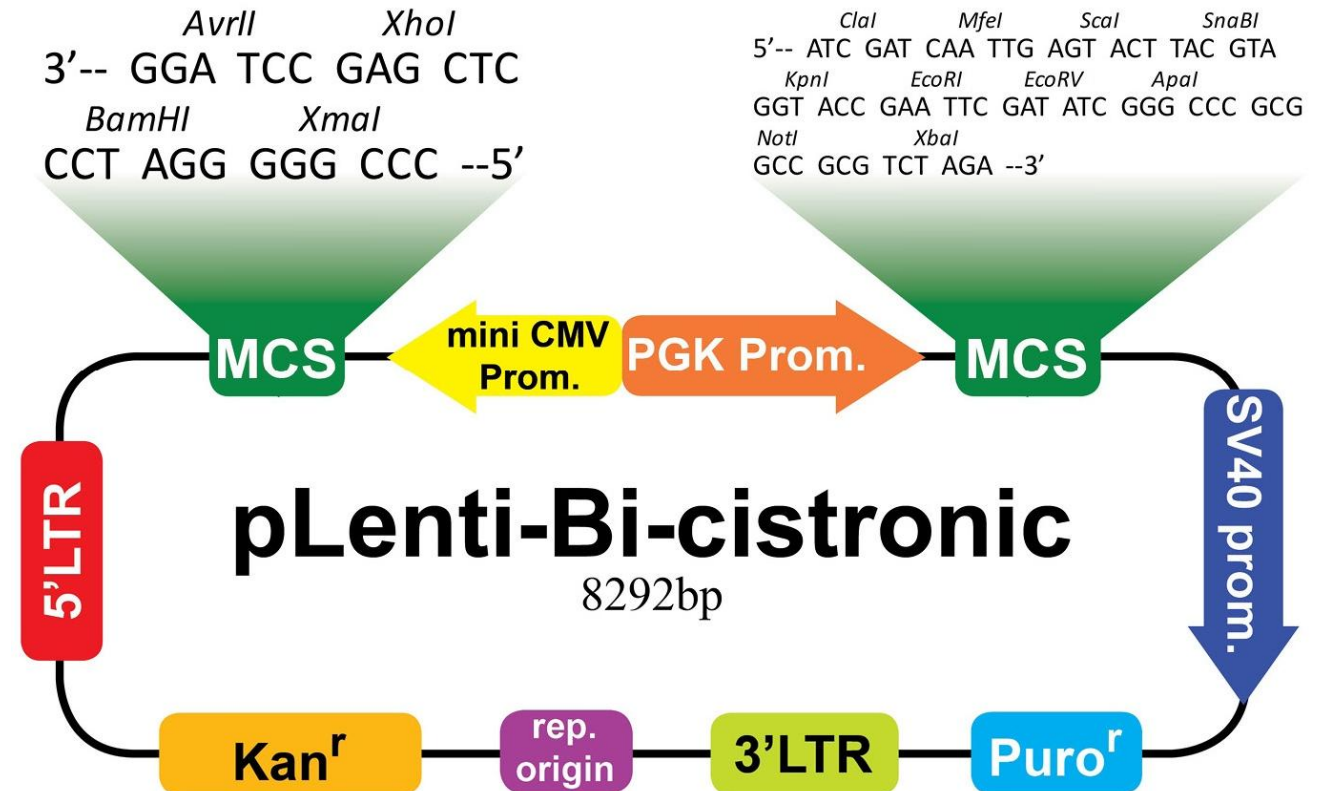


**LV037**

Vector Name	pLenti-Bi-cistronic
VectorType	Lentivirus
Antibiotic Information	Puromycin



**Sequence**

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## Genebank

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                     /gene="HIV-1_5_LTR other"
     Other Gene       1006..1050
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     ORF              1600..2301
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     misc_binding     2650..2655
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     misc_binding     3285..3292
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     Promoter         3353..3621
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     Rep_Origin       3520..3597
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     ORF              3587..4255
                     /sequence="ORF_2 rf(2)"
     misc_binding     3600..3612
                     /dbxref="REBASE:SfiI"
     Marker           3656..4255
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     Other Gene       4865..4917
                     /gene="delta_U3 other"
     Other Gene       4918..5098
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### Text Map

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61     gggaaacggggcggtgacgtagtagtggtggcgaagtgtgatgttgcagtgtggcgaa 120
      CCCTTGCCCCGCCACTGCATCATCACACCGCCTTCACACTACACGTTTACACCGCCTT

                                     Encap other (162,310)>>>
                                     |
121    cacatgtaagcgcggatgtggcaaaagtgaagtttttgggtggtgcgcggtgtacacagg 180
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181    aagtgacaattttcgcgcggttttagcggtgtgtagtaaaatttggcgtaaccgagt 240
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241    aagatttggccattttcgcgggaaaactgaataagaggaagtgaatctgaataatttg 300
      TCTAAACCGGTAAGCGCCCTTTGACTTATTCTCCTTCACTTTAGACTTATTAAAC

301    tgttactcatagcgcgtaaatagcgcagacctcagcgttagattattgaagcatttatcag 360
      ACAATGAGTATCGCGCATTATGCCGCTCTGGAGTCGCGATCTAATAACTTCGTAATAAGTC

                                     amp_prom (365,393)<<<
                                     |
361    ggttattgtctcatgagcggatacatatttgaatgtattgaaaaataacaaataggg 420
      CCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTATTGTTTATCCC

421    gttccgcgcacatttccccgaaaagtgccacctgacgttaactataacggctcctaaggt 480
      CAAGCGCGGTAAAGGGGCTTTTCACGGTGGACTGCAATTGATATTGCCAGGATTCCAT

481    gcgaaaatgtagtcttatgcaactctttagtcttgcacatggttaacgatgagttag 540
      CGCTTTTACATCAGAAACGTTATGAGAACATCAGAACGTTGTACCATTGCTACTCAATC

541    caacatgccttaacaggagagaaaagcaccgtgcatgccgattggtggaagtaaggtgg 600
      GTTGTACGGAATGTTCCCTCTTTTTCGTGGCAGTACGGCTAACACCTTCATTCACC

601    tacgatcgtgccttattaggaaggcaacagacgggtctgacatggattggacgaaccact 660
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                                     HIV-1_5_LTR other (715,895)>>>
                                     |
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721    ctctggttagaccagatctgagcctgggagctctctggttaactaggaaccactgctt 780
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781    aagcctcaataaagcttgccttgagtgttcaagtgtgtgcccgtctgttgtgtgac 840
      TTCGGAGTTATTTGAAACGGAATCAGAAATTCATCACACACGGGCAGACAACACTG

841    tctgtaactagagatccctcagacccttttagtcagtggtgaaaatctctagcagtgcc 900
      AGACCATTGATCTTAGGGAGTCTGGGAAAATCAGTCACACCTTTTAGAGATCGTCACCG

901    gcccgaaacaggacttgaaagcgaagggaaccagaggagctctctcagcgcaggactc 960
      CGGGCTTGTCCTGAACCTTTCGCTTTCCCTTTGGTCTCCTCGAGAGAGCTGCTCCTGAG

                                     HIV-1_psi_pack other (1006,1050)>>>
                                     |
961    ggcttctgaagcgcgcacggcaagaggcgagggcgagcactggtgagtagcgcacaaa 1020
      CCGAACGACTTCGCGCGTCCGTTCTCCGCTCCCCCGCTGACCACTCATGCGGTTTTT

1021   ttttgactagcggaggctagaaggagagatgggtgagagcgtcagttataagcggg 1080
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                                     NruI
                                     |
1081   ggagaattagatcgcgatgggaaaaattcggttaaggccagggggaagaaaaatata 1140
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1141   aattaaacataagtagtggaagcagggagctagaacgattcagtttaactcctggcc 1200
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1201   tgttagaaacatcagaaggctgtagacaaactgggacagctacaacctcccttcaga 1260
      ACAATCTTTGTAGTCTCCGACATCTGTTTATGACCTGTGATGTTGGTAGGGAAGTCT

1261   caggatcagaagaacttagatcattatataatacagtagcaacctctattgtgtgcatc 1320

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1381 aaagtaagaccaccgcacagcaagcccgtgtatcttcagacctggaggaggagatatgag 1440
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1441 ggacattggagaagtgaattataaaataaaagtagtaaaaattgaaccattaggagta 1500
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RRE reg (1557,1790)>>>
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ORF_1 rf(1) (1600,2301)>>>
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XhoI
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SmaI
|
BamHI XmaI
| |
2641 gagggatccccggcgatctgaoggttcaactaaacgagctctgcttataatagccctccc 2700
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PGK prom. (2723,3236)>>>
|
Mini CMV prom. (2722,2656)<<<
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2701 accgtacacgccacctcgacataaattctaccgggtaggggagggcgttttcccaaggca 2760

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| EcoRI | NotI
| KpnI | EcoRV | ApaI | XbaI
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| ORF_2 rf(2)(3587,4255)>>>
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|
| SfiI | puro marker(3656,4255)>>>
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delta\_U3 other (4865,4917)>>> HIV-1\_5\_LTR other (4918,5098)>>>

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4981 cttaacctcaataaaagcttgccttgagtcttcaagtgtgtgcccgtctgttgtgt 5040  
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pBR322 origin (5604,6223)<<<

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NEOKAN prom (6876, 6925) >>>

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6901 ctggtaagttgggaagccctgcaaaagtaactggatggctttctcgcgccaagatct 6960  
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NTP\_II marker (7017, 7805) >>>

BclI ORF\_3 rf (3) (7014, 7808) >>>

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f1 origin(7913,8218)<<<  
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8281 ataatacacctt 8292  
TATTATATGGAA

## Features

5'-LTR  
Start: 486 End: 2177

PolyA tail  
Start: 2628 End: 2434 (Complementary)

miniCMV promoter  
Start: 2723 End: 2656 (Complementary)

PGK promoter  
Start: 2724 End: 3236

SV40  
Start: 3353 End: 3655

Puro  
Start: 3656 End: 4255

3'-LTR  
Start: 5341 End: 4256 (Complementary)

Kanamycin/Neomycin  
Start: 7014 End: 7805