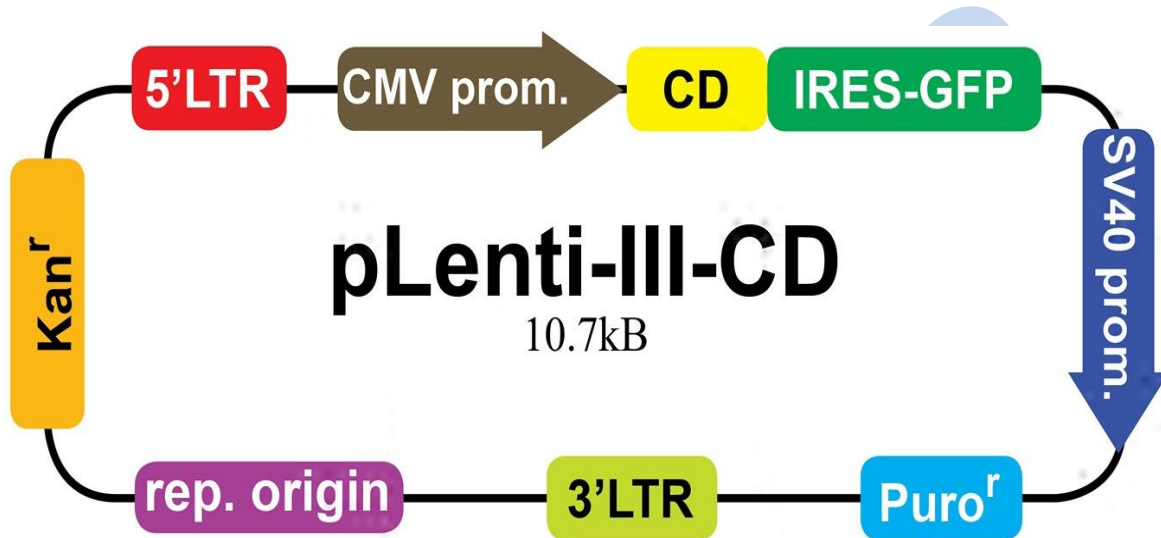


LV049

Vector Name	pLenti-III-CD
VectorType	Lentivirus
Antibiotic Information	Puromycin
Sequencing Primers	CMV sequencing primer 5'---CGC AAA TGG GCG GATGGC GTG---3'



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721 ctctggtttagaccagatctgagcctgggagctctctggctaactagggaaaccactgctt 780
GAGACCAATCTGGTCTAGACTCGGACCCFCGAGAGACCGATTGATCCCTGGGTGACGAA

781 aagcctcaataaagcttgccttagtgcttcaagtagtggtgcccctctgttgtgtgac 840
TTCGGAGTTATTTGACGGAACCTCACGAAGTTCATCACACACGGGCAGACAACACACTG

841 tctggtaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgcc 900
AGACCATTGATCTCTAGGGAGTCTGGGAAAATCAGTCACACCTTTTAGAGATCGTCACCC

901 gcccgaaacagggacttgaagcgaaagggaaaccagaggagctctctcgacgcaggactc 960
CGGGCTTGTCCTGAACTTTCGCTTTCCTTTGGTCTCCTCGAGAGAGCTGCGTCCCTGAG

HIV-1_psi_pack other(1006,1050)>>>

961 ggcttgotgaagcgccacggcaagagggcgagggcgccgactggtgagtagcgcacaaaa 1020
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1021 ttttgactagcggaggctagaaggagagagatgggtgagagcgtcagtagtaaacgggg 1080
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NruI

1081 ggagaattagatcgcatgggaaaaaattcggttaagccaggggaaagaaaaataata 1140
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1141 aatataaacatagtagtgcaagcagggagctagaacgattcgcagttaatcctggcc 1200
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1201 tgttagaaacatcagaaggctgtagacaaatactgggacagctacaacctcccttcaga 1260
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1321 aaaggatagagataaaagacaccaaggaagccttagacaagatagaggaagagcaaaaca 1380
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1381 aaagtaagaccaccgcacagcaagcccgctgatcttcagacctggaggaggagatagag 1440
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1441 ggacattggagaagtgaattataaataaaagtagtaaaattgaaccattaggagta 1500
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RRE reg(1557,1790)>>>

1501 gcaccaccaagcgaagagaagagtggtgagagagaaaaagagcagtggaatagga 1560
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ORF_1 rf(1)(1600,2301)>>>

1561 gctttgttcttgggttcttgggagcagcaggaagcactatgggagcagcgtcaatgacg 1620
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1621 ctgacggtacagccagacaattattgtctggtatagtcgacagcagaacaatttctg 1680
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1681 agggctattgagggcgaacagcatctgttcaactcacagctctggggcatcaagcagctc 1740
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1741 caggcaagaatcctggctgtgaaagatacctaaggatcaacagctcctggggatttgg 1800
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1801 ggttgcctggaactcatttgcaccactgctgtgcttggaaatgctagttggagtaat 1860
CCAACGAGACCTTTTGTAGTAAACGTTGGTGACGACACGGAACCTTACGATCAACCTCATTA

1861 aaatctctggaacagatttggaaatcacacgacctggatggagtggtggacagagaaattaac 1920
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1921 aattacacaagcttaatacactccttaattgaagaatcgcaaacagcaagaaaagaat 1980
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1981 gaacaagaattattggaattagataaaatggcaagtttgggaattggttaacataaca 2040
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2401 aattcaaaatcttggggtttttcgaacctagggtcccgcttacataacttacggtaaat 2460
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2821 acgtcaatgggagttgttttggcaccaaaatcaacgggactttccaaaatgtcgttaaca 2880
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CMV prom (2885, 2966) >>>

2881 actccgccccattgacgcaaatggcggttagcggtgtacggtgggaggtctataataagca 2940
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2941 gagctcgttttagtgaaccgtcagatcgccctggagacgccatccacgctgttttgacctcc 3000
CTCGAGCAAATCACTTGGCAGTCTAGCGGACCTCTGCGGTAGGTGCGACAAAACCTGGAGG

tetO reg (3022, 3061) >>>

3001 atagaagaaccgagtttaactccctatcagtgatagagatctccctatcagtgatagag 3060
TATCTTCTTGGCTCAAATTTGAGGGATAGTCACTATCTCTAGAGGGATAGTCACTATCTC

ORF_5 rf (3) (3078, 4361) >>>

3061 actagacggtcgcaccatgagcaataacgctttacaacaattattaaacgcccgggttac 3120
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3121 caggcgaagagggctgtggcagattcatctgcaggacgaaaaatcagcgccattgatg 3180
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3241 taccgcccgttttggagccacataattcacctggacaccagcaaacgcccggacaaccga 3300
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3301 actggaatcagtcggcagcgtgtttgaaggcattgaaacgctggccgagcgcaaacgct 3360
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      EcoRI
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      StuI      EcoRV      IRES reg (4430,5014) >>>
4381 cggtaggcctgtgcagcatatcgggcccggcgctggatccggatccgcccctctccc 4440
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4441 tccccccccctaacgttactggcgaagccgcttggaataagccgggtgtgcgtttgtc 4500
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      ires_emcv reg (4506,5006) >>>
4501 tatatgttattttccaccatattgcccgtcttttggcaatgtgagggcccggaaacctggc 4560
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4861 gatgcccagaaggtaccaccattgtatgggatctgatctgggacctcgggtcacatgcttt 4920
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      EGFP reporter (5018,5734) >>>
      ORF_3 rf (2) (5006,5737) >>>
4981 ttctttgaaaaacacgatgataaatatggccacaaccatggtgagcaagggcgaggagct 5040
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XhoI
|

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SV40 prom(5806,6074)>>>
|

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SV40 origin(5973,6050)>>>
|

5941 cagcaaccatagtcoccccccactccgcccaccccccactccgcccagttccg 6000
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ORF_2 rf(1)(6040,6708)>>>
|

6001 cccattctcgcgccatggtgactaattttttttatattatgacagggccgagggccgct 6060
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sfii puro marker(6109,6708)>>>
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delta_U3 other (7318,7370)>>>

7261 gccttcgcccctcagacgagtcggatctccctttggcgcgctccccgctgtccggatgg 7320
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HIV-1_5_LTR other (7371,7551)>>>

7321 aagggctaattcactcccaacgaatacaagatctgctttttgcttgtaactgggtctctct 7380
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7981 ccacagaatcaggggataacgcaggaagaacatgtgagcaaaagccagcaaaagggcca 8040
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pBR322 origin (8057,8676)<<<

8041 ggaaccgtaaaaagcgcggttctgctggcgtttttccataggtccgccccctgacgagc 8100
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8101 atcacaataatcagcgtcaggtcagaggtggcgaacccgacaggactataagataacc 8160
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8161 aggcgtttccccctggaagctccctctgctcctctctgttccgaccctgccgcttaccg 8220
TCCGCAAAAGGGGACCTTCGAGGGAGCACGGCAGAGGACAAAGCTGGGACGGCGAATGGC

8221 gatacctgtccgctttctcccttcgggaagcgtggcgtttctcatagctcagctgta 8280
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8281 ggtatctcagttcgggtgtaggtctgctccaagctgggctgtgtgcaaccccccg 8340
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TGCTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCTAATCGTCTCGCTCCATACATC

8461 gcggtgtacagagttcttgaagtggtggcctaactacgggtacactagaaggacagtat 8520
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8521 ttggtatctgctctgctgaagccagttaccttcggaaaaagagttgtagctcttggat 8580
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8761 agatccttttaattaaaaatgaagtttaaatcaatctaaagtatatatgagtaaaact 8820
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8821 ggtctgacagttaccaatgcttaacagtgaggcacctatctcagcgatctgtctatttc 8880
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8941 catctggccccagtgctgcaatgatacccgagaccacgcctcaccggctccagatttat 9000
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9001 cagcaataaacaccagccagccggaagggcggagcgcagaagtggtcctgcaactttatccg 9060
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9241 aaacgcaagcgaagaagagaaagcaggtagcttgcagtggttcatatggcgatagctaga 9300
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NEOKAN prom (9329,9378)>>>

9301 ctgggcggttttatggacagcaagcgaaccggaattgccagctggggcgccctctggtaa 9360
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9361 ggttgggaagccctgcaaaagtaaaactggaaggctttctcgcgccaaggatctgatggcg 9420
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NTP_II marker (9470,10258)>>>

BclI ORF_4 rf (2) (9467,10261)>>>

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9481 tggattgcaagcaggttctccggcgttgggtggagaggtattcggctatgactgggc 9540
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9541 acaacagacaatcggtctctgatgccgctgttccggctgtcagcgcagggggcgccc 9600
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9601 ggttctttttgtcaagaccgacctgtccggtgacctgaatgaactgcaagcagggcagc 9660
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9661 gcggtatcgtggtgcccacgagggggttccttgcgagctgtgctcagcttggcagc 9720
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9961 cgcgcccagccgaactgttcgcccaggtcaaggcagcagcagcagcagcagcagcagcagc 10020
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10201 tategccgctcccgattcgcagcgcacgcttctatcgccttcttgacgagttcttctg 10260
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f1 origin(10366,10671)<<<
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10321 acatcccttataaatcaaaagaatagaccgcataggggtgagtggtgttccagtttggga 10380
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10441 agggcgcgatggccactacgtgaaccatcaccaaatcaagtttttggcgtgaggtgcc 10500
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10621 caagtgtagcggctcagcgtgcgcgtaaccaccacacccgcgcgcttaatgcccgcctaca 10680
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10741 acctt 10745
 TGGAA

Features

5'-LTR
 Start: 486 End: 2177
 Original Location Description:
 486..2177
 CMV Promoter
 Start: 2433 End: 3061
 Original Location Description:
 2433..3061
 CD
 Start: 3062 End: 4367
 Original Location Description:
 3062..4367
 IRES-GFP
 Start: 4425 End: 5747
 Original Location Description:
 4425..5747
 SV40 Promoter
 Start: 5806 End: 6108
 Original Location Description:
 5806..6108
 Puro
 Start: 6109 End: 6708
 Original Location Description:
 6109..6708
 3'-LTR
 Start: 7794 End: 6709 (Complementary)
 Original Location Description:
 complement(7794..6709)
 Kana
 Start: 9467 End: 10258
 Original Location Description:
 9467..10258