Product Datasheet

pCLNCX Retrovirus Expression Vector
NBP2-29502

Unit Size: 10 ug

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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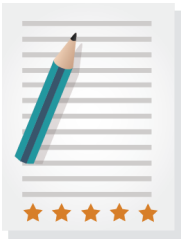
Updated 10/23/2024 v.20.1



NBP2-29502

pCLNCX Retrovirus Expression Vector

Product Information

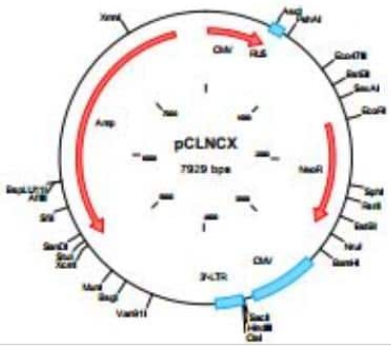
Unit Size	10 ug
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Buffer	10 ug in 20 ul 1x TE (10 mM Tris, pH 7.5, 1 mM EDTA)

Product Application Details

Applications	Retroviral Production
Recommended Dilutions	Retroviral Production reported in scientific literature (PMID 29121057)
Application Notes	The RetroMax system is designed for maximal virus titer in 293 cells. It takes advantages of two properties of 293 cells, i) high level of transfectibility, ii) strong E1A-mediated stimulation of CMV promoter controlled transcription. 293 cells are of nonmurine origin, hence the problem of selective packaging and transfer of VL30 genomes (present in all murine packaging cells) are avoided. Vector supernatants are free of helper virus and are of sufficiently high titer within 2 days of transient transfection in 293 cells to permit infection of more than 50% of dividing target cells in culture.

Images

pCLNCX Retrovirus Expression Vector [NBP2-29502] - Schematic presentation of pCLNCX vector: CMV immediate early promoter/enhancer allows highefficiency transcription in 293 cells. However, this is lost during viral replication. Hence, the gene of interest cloned into Eco RI cloning site is driven by Moloney MLV and murine sarcoma virus LTR (RU5). For expression under the control of CMV early promoter/enhancer, the gene of interest should be cloned into Hind III or Cla I site.



Publications

Keckesova Z, Donaher JL, De Cock J et al. LACTB is a tumour suppressor that modulates lipid metabolism and cell state. Nature 2017-03-30 [PMID: 28329758] (RetVir)

Muir E, Raza M, Ellis C et al. Trafficking and processing of bacterial proteins by mammalian cells: Insights from chondroitinase ABC PLoS ONE. 2017-11-27 [PMID: 29121057] (RetVir)

Hernandez JL, Davda D, Cheung See Kit M et al. APT2 Inhibition Restores Scribble Localization and S-Palmitoylation in Snail-Transformed Cells Cell Chem Biol. 2017-01-19 [PMID: 28065656]

Dean Km, Lubbeck Jl, Davis Lm, Regmi Ck. Microfluidics-Based Selection of Red-Fluorescent Proteins with Decreased Rates of Photobleaching Technical Innovation et al. 2014-11-21 [PMID: 25477249]

Martin BR, Giepmans BN, Adams SR et al. Mammalian cell-based optimization of the biarsenical-binding tetracysteine motif for improved fluorescence and affinity. Nat Biotechnol. 2005-10-01 [PMID: 16155565]

Nishiya N, Tachibana K, Shibanuma M et al. Hic-5-reduced cell spreading on fibronectin: competitive effects between paxillin and Hic-5 through interaction with focal adhesion kinase. Mol Cell Biol. 2001-08-01 [PMID: 11463817]

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