

Product Datasheet

pCL-Ampho Retrovirus Packaging Vector

NBP2-29541

Unit Size: 10 ug

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

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NBP2-29541**pCL-Ampho Retrovirus Packaging 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 sterile water.
Product Description	
Species	Mammal, Hamster (Negative)
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 24311986).
Specificity/Sensitivity	Ecotropic (MoMuLV) for mouse and rat cells only (not human) Amphotropic (from 4070A MuLV) for most mammalian cells (but not hamster) 10A1 (MuLV) for most mammalian cells (including hamster)
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Retroviral Production
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 34082772), Retroviral Production reported in scientific literature (PMID 24311986)
Application Notes	For amplification, transform a suitable E. coli host such as HB101 or DH-5alpha and plate on LB plates containing 50-ug/ml ampicillin. For plasmid DNA preparation start culture from a single colony in LB medium containing 100 ug/ml ampicillin.



Publications

Zhang M, Kim S, Yang HW Non-canonical pathway for Rb inactivation and external signaling coordinate cell-cycle entry without CDK4/6 activity *Nature communications* 2023-11-29 [PMID: 38030655]

Chen L, Zhang Z, Han Q et al. Hormone-induced enhancer assembly requires an optimal level of hormone receptor multivalent interactions *Molecular cell* 2023-09-14 [PMID: 37738977]

Boada-Romero E, Guy C, Palacios G et al. Phosphatidylserine clustering by membrane receptors triggers LC3-associated phagocytosis *bioRxiv* 2023-09-07

Witkowski MT, Lee S, Wang E et al. NUDT21 limits CD19 levels through alternative mRNA polyadenylation in B cell acute lymphoblastic leukemia *Nature Immunology* 2022-10-01 [PMID: 36138187]

Watson AW, Grant AD, Parker SS et al. Breast tumor stiffness instructs bone metastasis via maintenance of mechanical conditioning *Cell Reports* 2021-06-29 [PMID: 34192535]

Velić P, Cunha PP, Vojnovic N et al. Modified Hypoxia-Inducible Factor Expression in CD8(+) T Cells Increases Antitumor Efficacy *Cancer Immunology Research* 2021-04-01 [PMID: 33602720]

Hirschenberger M, Lepelley A, Rupp U et al. ARF1 prevents aberrant type I IFN induction by regulating STING activation and recycling *medRxiv* 2023-05-02

van der Donk L, van der Spek J, van Duivenvoorde T, et al. An optimized retroviral toolbox for overexpression and genetic perturbation of primary lymphocytes *Biol Open* 2022-03-01 [PMID: 35229875]

Zhang Y, Xu Y, Lu W et al. G6PD-mediated increase in de novo NADP⁺ biosynthesis promotes antioxidant defense and tumor metastasis *Science advances* 2022-07-22 [PMID: 35857842] (RetVir)

Haddock S, Alban TJ, Turcan S et al. Phenotypic and molecular states of IDH1 mutation-induced CD24-positive glioma stem-like cells *Neoplasia (New York, N.Y.)* 2022-06-01 [PMID: 35398668]

Zouiouich M, Di Mattia T, Martinet A et al. MOSPD2 a new endoplasmic reticulum-lipid droplet tether functioning in LD homeostasis *bioRxiv* 2022-02-11 [PMID: 35389430]

Rostami J, Mothes T, Kolahdouzan M et al. Crosstalk between astrocytes and microglia results in increased degradation of alpha-synuclein and amyloid-beta aggregates *Journal of neuroinflammation* 2021-06-03 [PMID: 34082772] (ICC/IF)

More publications at <http://www.novusbio.com/NBP2-29541>



Procedures

Serum protocol for pCL-Ampho Retrovirus Packaging Vector (NBP2-29541)

Day 0 Seed 293 cells and grow overnight.

Day 1 Transfect with retroviral vector containing gene of interest and an appropriate packaging vector.

Day 2 Replace medium.

Day 3 Harvest virus-containing supernatant. Virus may be stored at - 70C at this stage. Infect target cells, either for titer determination or for gene expression.

Day 4 Split infected target cells and grow for selecting stable virus producing cell lines. For transient expression experiments, you may harvest the cells at this stage.

Day 5 Start selection by replacing the medium with G418 containing medium.

Day 9 Change medium and continue selection.

Day 14 Count antibiotic resistant colonies and calculate titer.

Note: If you are using retroviral expression system for the first time, we strongly recommend using the LacZ control plasmid included in the kit. The B-galactosidase expression can be monitored using B-gal staining kit or any other standard protocol.





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