



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Human CXCR4 Expression Vector (pcCXCR4)

Catalog Number: 3326

Lot Number: 99026

Release Category: C

Provided: 1 mL glycerol stock (STBL-2 cells).

Cloning Site: HindIII and XhoI (5'-3'). The size of the insert is approximately 1.3 kb.

Cloning Vector: pcDNA1/amp (Invitrogen).

Description: CXCR4 (FUSIN) expression vector. The cDNA encoding CXCR4 was amplified from activated PBMC RNA using primers hybridizing to the 5' and 3' untranslated regions of CXCR4. The insert was digested with HindIII and XhoI and cloned into pcDNA1/amp. Constructs are selected for by adding Ampicillin (100 µg/mL) to the growth medium. Chloramphenicol (100 µg/ml) should be added 4.5–5.5 hours (OD600 = 1.0) after seeding the culture.

CXCR4 primer sequences:
CXCR4.5'HindIII (30mer): 5'-GGCTAAAGCTTCAAAGTGACGCCGAGGGCC-3'.
CXCR4.3'XhoI (30mer): 5'-CGTCCTCGAGCATCTGTGTTAGCTGGAGTG-3'.

Special Characteristics: [Plasmid Map](#)
Alternate name: pcFUSIN

Recommended Storage: -70°C.

Contributor: Dr. Nathaniel Landau, Aaron Diamond AIDS Research Center, The Rockefeller University.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

References:

Morgenstern JP, Land H. Advanced mammalian gene transfer: high titre retroviral vectors with multiple drug selection markers and a complementary helperfree packaging cell line. *Nucleic Acids Res* **18**:3587–3596, 1990.

Deng H, Liu R, Ellmeier W, Choe S, Unutmaz D, Burkhart M, Di Marzio P, Marmon S, Sutton RE, Hill CM, Davis CB, Peiper SC, Schall TJ, Littman DR, Landau NR. Identification of a major co-receptor for primary isolates of HIV-1. *Nature* **381**:661–666, 1996.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Human CXCR4 Expression Vector (pcCXCR4) (Cat# 3326) from Dr. Nathaniel Landau." Also include the references cited above in any publications.

Patent-pending. Requests from commercial organizations must be directed to the New York University Medical Center, ATTN: Office of Industrial Liaison, 550 First Avenue, New York, NY 10016, Tel: 212-263-8178.

Research Chart:

Expression Vector	Cat. No.
pc.CCR-1	3321
pBABE.CCR-1	3327
pc.CCR-2B	3322
pBABE.CCR-2B	3328
pc.CCR-3	3323
pBABE.CCR-3	3329
pc.CCR-4	3324
pBABE.CCR-4	3330
pc.CCR-5	3325
pc.CXCR4	3326
pBABE.CCR-5	3331
pBABE.Fusin	3332

Last Updated:

August 03, 2018

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