



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: Human CXCR4 Expression Vector (pcCXCR4)

Catalog Number: 3326

Lot Number: 140028

Release Category: C

Provided: 5 µg of dried purified DNA stabilized in DNASTable *PLUS*

Cloning Site: HindIII/XhoI cloning site
The size of the insert is 1417 bp.

Cloning Vector: pcDNAI/Amp
Ampicillin resistant

Description: CXCR4 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 pcDNAI/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: This construct is 6140 bp including the insert.
Alternate name: pcFUSIN

[Contributor provided plasmid map](#)

[Plasmid map and sequence file lot 140028](#)

This reagent is currently being provided as dried purified DNA stabilized in DNASTable *PLUS*. Please see the notice for additional information and the protocol for reconstitution

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.

of dried DNA reagents. [Dried DNA Notice](#)

Recommended Storage:

Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

Contributor:

Dr. Nathaniel Landau

References:

H. Deng, R. Liu, W. Ellmeier, S. Choe, D. Unutmaz, M. Burkhart, P. Di Marzio, S. Marmon, R. E. Sutton, C. M. Hill, C. B. Davis, S. C. Peiper, T. J. Schall, D. R. Littman and N. R. Landau. (1996). Identification of a major co-receptor for primary isolates of HIV-1. *Nature*, 381(6584), 661-6. doi:10.1038/381661a0 [PUBMED](#)

J. P. Morgenstern and H. Land. (1990). Advanced mammalian gene transfer: high titre retroviral vectors with multiple drug selection markers and a complementary helper-free packaging cell line. *Nucleic Acids Res*, 18(12), 3587-96. [PUBMED](#)

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) from Dr. Nathaniel Landau (cat# 3326)." Also include the references cited above in any publications.

Patent-pending. Requests from commercial organizations must be directed to the New York University Office of Industrial Liaison at the following email address: sadhana.chitale@nyumc.org.

Last Updated:

August 03, 2018

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.