



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Human CCR5 Expression Vector (pcCCR5)

Catalog Number: 3325

Lot Number: 150311

Release Category: C

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

Cloning Site: BamHI and XhoI (5'-3'). The size of the insert is approximately 1.1 kb.

Cloning Vector: pcDNA1/amp (Invitrogen).

Description: Chemokine receptor, CCR5 expression vector.

Special Characteristics: The cDNA encoding CCR5 was amplified from activated PBMC RNA using primers hybridizing to the 5' and 3' untranslated regions of CCR5. The insert was digested with BamHI and SalI and cloned into the BamHI and XhoI sites of pcDNA1/amp (SalI and XhoI are compatible ends for ligation). 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.

CCR5 primer sequences:
CCR5.5'BamHI (29mer): 5'-CTCGGATCCGGTGGGAACAAGATGGATTAT-3'.
CCR5.3'SalI (28mer): 5'-CTCGTCGACATGTGCACAACTCTGACTG-3'.

[Contributor provided sequence information](#)

[Sequence file lot 150311](#)

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

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.

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

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

References: Morgenstern JP, Land H. 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**:3587-3596, 1990. [Abstract](#)

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. [Abstract](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Human CCR5 Expression Vector (pcCCR5) (Cat #3325) 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 Office of Industrial Liaison at the following email address: sadhana.chitale@nyumc.org.

Last Updated: May 17, 2019

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