



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** Human CCR5 Expression Vector (pcCCR5)

**Catalog Number:** 3325

**Lot Number:** 050803

**Release Category:** C

**Provided:** 1 mL glycerol stock (E. coli strain, HB101).

**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 expression vector, CCR5. 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.

CCR-5 primer sequences:  
CCR-5.5'BamHI (29mer): 5'-CTCGGATCCGGTGGAAACAAGATGGATTAT-3'.  
CCR-5.3'SalI (28mer): 5'-CTCGTGCACATGTGCACAACCTGACTG-3'.

**Special Characteristics:** [Plasmid Map](#)

**Recommended Storage:** -70°C

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

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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 helper-free 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 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](mailto:sadhana.chitale@nyumc.org).**

**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.Fusin	3326
pBABE.CCR-5	3331
pBABE.Fusin	3332

**Last Updated:**

August 02, 2018

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