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DATA SHEET

Reagent: Human CXCR4 Expression Vector (pBABE.CXCR4)

Catalog Number: 3332

Lot Number: 020004

Release Category: C

Provided: 1 mL glycerol stock, HB101 cells.

Cloning Site: EcoRI. The size of the insert is approximately 1.3 kb.

Cloning Vector: pBABE-puro (Morgenstern & Land, 1990).

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 PCR product was first cloned into the PCRII vector, digested with EcoRI, and cloned into the EcoRI site of pBABE puro. Constructs are selected for by adding Ampicillin (100ug/mL) to the growth medium. Chloramphenicol (25 µg/ml) should be added 4.5–5.5 hours (OD₆₀₀ = 1.0) after seeding the culture.

CXCR4 primer sequences:
FUSIN.5'(22mer): 5'-AAGTGACGCCGAGGGCCTGAGT-3'.
FUSIN.3'(22mer): 5'-GCCTAGACACATCAATATGA-3'.

Special Characteristics: Alternate name: pBABE.FUSIN
[Plasmid Map](#)

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 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 CXCR4 Expression Vector (pBABE.CXCR4) 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:

September 14, 2017

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