

**Centre for AIDS Reagents**

**Data Sheet**

<b>NAME:</b>	p89.6
<b>REPOSITORY REFERENCE:</b>	ARP2119
<b>PROVIDED:</b>	1ml transformed E.coli DH5 $\alpha$
<b>CLONING SITE:</b>	Blunt-ended restriction sites <i>NdeI-SphI</i>
<b>CLONING VECTOR:</b>	pUC19
<b>DESCRIPTION:</b>	Contains the full 9.7 kb provirus with intact 5' and 3' LTRs. At the 5' end approximately 50 bp of flanking sequence are present between the blunt ended <i>NdeI</i> site of the vector and the beginning of the 5' LTR. At the 3' end essentially all flanking sequences are removed between the 3' LTR and the blunt ended <i>SphI</i> site. The full sequence is available through GenBank accession # U39362.2
<b>SPECIAL CHARACTERISTICS:</b>	<p>This is a biologically active infectious molecular clone of the dual-tropic cytopathic HIV-1 primary isolate 89.6. The virus replicates in primary macrophages and T4 lymphocytes, and a limited range of transformed cell lines (CEMx174 and MT-2, but not Sup-T1, U937, HeLa-CD4 or most others). It is highly syncytium-inducing in primary lymphocytes and transformed lines. Its envelope is able to utilize both the CCR-5 and CXCR-4 chemokine receptors, as well as CCR-3 and CCR-2, as cofactors for fusion and entry.</p> <p><i>To minimize the risk of deletions, the clone should be grown at 30°C for all phases (transformation, streaking, minipreps, maxipreps), with minimal shaking and aeration. Cultures should be grown in medium containing 100<math>\mu</math>g/ml ampicillin</i></p>
<b>STORAGE:</b>	-70°C
<b>SOURCE:</b>	Ronald G. Collman, MD. (Courtesy of the AIDS Research and Reference Reagent Program, Division of AIDS, NIAID, NIH.)
<b>REFERENCES:</b>	Collman R, Balliet JW, Gregory SA, Friedman H, Kolson DL, Nathanson N, Srinivasan A. An infectious molecular clone of an unusual macrophage-tropic and highly cytopathic strain of human immunodeficiency virus type 1. <i>J Virol</i> <b>66</b> :7517–7521, 1992.

Kim FM, Kolson DL, Balliet JW, Srinivasan A, Collman RG. V3-independent determinants of macrophage tropism in a primary HIV-1 isolate. *J Virol* **69**:1755–1761, 1995.

Doranz BJ, Rucker J, Yi Y, Smyth RJ, Samson M, Peiper SC, Parmentier M, Collman RG, Doms RW. A dual-tropic primary HIV-1 isolate that uses both fusin and the  $\alpha$ -chemokine receptors CKR-5, CKR-3 and CKR-2b as fusion cofactors. *Cell* **85**:1149–1158, 1996.

**ACKNOWLEDGEMENTS:**

Publications should acknowledge the donor of the reagent and the Centre for AIDS Reagents. Suggested wording can be found on our website in the “Acknowledgement” section at:-

[www.nibsc.ac.uk/spotlight/centre\\_for\\_aids\\_reagents.aspx](http://www.nibsc.ac.uk/spotlight/centre_for_aids_reagents.aspx)

Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR, this can be by e-mail or printed copy.

**PLASMID MAP**

