# Centre for AIDS Reagents.

## Data Sheet

**NAME:** PVO clone 4 (SVPB11)

**REPOSITORY REFERENCE :** **ARP2057**

**NOTE:** This clone is also available as a member of a panel set, see **ARP2066**

**PROVIDED:** 20 µg of plasmid DNA in TE buffer (0.5 mg/ml)

**CLONING SITE:** The HIV-1 env/rev cassette was directly cloned into the cloning site of pcDNA3.1D/V5-His TOPO© expression vector, in the correct orientation with the CMV promoter. The size of the insert is 3119 bp.

**CLONING VECTOR:** pcDNA3.1D/V5-His TOPO©. The size of the cloning vector including the insert is 8633 bp.

**DESCRIPTION:** A PCR fragment containing full-length env and rev genes was derived from the genomic DNA of infected PBMC. Original virus was obtained by PBMC co-culture. The env/rev cassette was cloned into cDNA3.1D/V5-His TOPO© expression vector by a directional cloning approach. A single transformed ampicillin resistant *E. coli* colony was selected and expanded. Recombinant plasmid carries resistance genes for ampicillin and neomycin. Sequence information is available upon request.

**SPECIAL CHARACTERISTICS:** The clone represents env/rev sequences from a subject with acute subtype B infection (male-male transmission in Italy). The clone expresses a functional env/rev cassette and can be used to generate pseudotyped infectious virions that use CCR5 as the viral co-receptor. PVO.4 Env containing pseudovirions are included in a standard virus neutralization panel for subtype B strains (SVPB11).



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| **GENE BANK:** | Accession number is AY835444 |
| **STORAGE:** | -80°C |
| **SOURCE:** | Dr. David Montefiori, Dr. Feng Gao and Dr. Ming Li. (Courtesy of NIH AIDS Research and reference Reagent Programme.) |
| **REFERENCE:** | Li, M., Gao F., Mascola J.R., Stamatatos L., Polonis V.R., Koutsoukos M., Voss G., Goepfert P., Gilbert P., Greene K.M., Bilska M., Kothe D.L., Salazar-Gonzalez J.F., Wei X., Decker J.M., Hahn B.H., and Montefiori D.C. Human immunodeficiency virus type 1 env clones from acute and early subtype B infections for standardized assessments of vaccine-elicited neutralizing antibodies. *J. Virol*ogy **79**(16): 10108-10125, 2005. |
| **ACKNOWLEDGEMENTS:** | Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html in the "Acknowledgements" section.<br>Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy) |