

Centre for AIDS Reagents

Data Sheet

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|------------------------------|---|
| NAME: | LTR (A)-luc through LTR (G)-luc |
| REPOSITORY REFERENCE: | ARP2022.1-7 |
| DESCRIPTION: | A set of 7 LTR- luciferase plasmids containing the core enhancer-promoter region of the HIV-1 subtypes A through G. |
| CHARACTERISTICS: | Enables the study of transcriptional regulation of different HIV-1 subtypes. |
| DESCRIPTION: | The LTR region was PCR-amplified and the core enhancer-promoter region (position -147 to +63 relative to the transcription start site) was cloned in the pBlue 3'LTR-luciferase plasmid (ARP2022.2)(Klaver B and Berkhout B, 1994) to replace the sequences of the LAI isolate of subtype B. The exchanged region contains the two NF- κ B enhancers, three Sp1 binding sites, the TATAA box and the TAR RNA hairpin motif. The sequences and characteristics of the subtype LTRs plasmids provided in Jeeninga R <i>et al.</i> , 2000. All subtype LTRs can be activated by the Tat protein of a subtype B virus. |
| CLONING VECTOR: | Bluescript |
| HOST: | DH5alpha |
| PRESENTATION: | Supplied as plasmid DNA/Bacterial Stock |

| Catalogue No. | Subtype | LTR from (Accession No.) |
|---------------|---------|--------------------------|
| ARP2022.1 | A | AF127566 |
| ARP2022.2 | B | - |
| ARP2022.3 | C | - |
| ARP2022.4 | D | AF127569 |
| ARP2022.5 | E | AF127570 |
| ARP2022.6 | F | AF127571 |
| ARP2022.7 | G | - |

SOURCE: Dr B Berkhout

REFERENCES:

Klaver B and Berkhout B; Comparison of 5' and 3' LTR promoter function in the human immunodeficiency virus (1994) J.Virol. **68**, 3830-3840.

Jeeninga R, Hoogenkamp M, Armand-Ugon M, de Baar M, Verhoef K and Berkhout B; Functional differences between the LTR transcriptional promoters of HIV-1 subtypes A through G (2000) J.Virol. **74**, 3740-3751).

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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.