



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human Immunodeficiency Virus Type 1 Long Terminal Repeat Scanning Mutants (CAT)
Catalog Number:	ARP-4147
Lot Number:	200586
Release Category:	A
Provided:	Each vial contains approximately 5 micrograms of dried, purified plasmid DNA stabilized in DNASTable®Plus. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.
Description:	<p>ARP-4147 is a complete collection of plasmids from ampicillin-resistant, transformed bacterial stocks. ARP-4147 is composed from two sets of 26 substitution mutants extending from the 5' long terminal repeat (LTR) (-453 base pairs from the transcription start site) to base +15. Each mutant replaces 18 base pairs of the wild type, human immunodeficiency virus type 1 (HIV-1) HXB2 sequence with an <i>NdeI-XhoI-SalI</i> (NXS) polylinker (CATATGCTCGAGGTCGAC). The 26 mutants can be used for transient chloramphenicol acetyltransferase (CAT) expression assays.</p> <p>The HIV-1 LTR scanning mutants in ARP-4147 lot 200586 are shown in Table 1.</p>
Recommended Storage:	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
Contributor:	Steve Zeichner
References:	<p>Zeichner, S., J. Y. H. Kim and J. C. Alwine. "Linker-Scanning Mutational Analysis of the Transcriptional Activity of the Human Immunodeficiency Virus Type 1 Long Terminal Repeat." <i>J. Virol.</i> 65 (1991): 2436-2444. PubMed: 2016766.</p> <p>Zeichner, S., et al. "Differentiation-Dependent Human Immunodeficiency Virus Long Terminal Repeat Regulatory Elements Active in Human Teratocarcinoma Cells." <i>J. Virol.</i> 66 (1992): 2268-2273. PubMed: 1548760.</p> <p>Kim, J. Y. H., et al. "Replication of Type 1 Human Immunodeficiency Viruses Containing Linker Substitution Mutations in the -201 to -130 Region of the Long Terminal Repeat." <i>J. Virol.</i> 67 (1993):1658-1662. PubMed: 8437235.</p>
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Human Immunodeficiency Virus Type 1 Long Terminal Repeat Scanning Mutants (CAT), ARP-4147, contributed by Dr. Steve Zeichner."
Biosafety Level: 1	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in Microbiological and Biomedical Laboratories</u> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm .
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Table 1: HIV-1 LTR Scanning Mutants

Position	Catalog No.	Reagent Name	Lot No.
A1	ARP-13798	HIV-1 LTR Scanning Mutant (-453/-436 NXS CAT)	200551
A2	ARP-13799	HIV-1 LTR Scanning Mutant (-435/-418 NXS CAT)	200552
A3	ARP-13800	HIV-1 LTR Scanning Mutant (-417/-400 NXS CAT)	200514
A4	ARP-13801	HIV-1 LTR Scanning Mutant (-399/-382 NXS CAT)	200515
A5	ARP-13802	HIV-1 LTR Scanning Mutant (-381/-364 NXS CAT)	200516
A6	ARP-13803	HIV-1 LTR Scanning Mutant (-363/-346 NXS CAT)	200553
A7	ARP-13804	HIV-1 LTR Scanning Mutant (-345/-328 NXS CAT)	200554
A8	ARP-13805	HIV-1 LTR Scanning Mutant (-327/-310 NXS CAT)	200555
A9	ARP-13806	HIV-1 LTR Scanning Mutant (-309/-292 NXS CAT)	200517
A10	ARP-13807	HIV-1 LTR Scanning Mutant (-291/-274 NXS CAT)	200556
A11	ARP-13808	HIV-1 LTR Scanning Mutant (-273/-256 NXS CAT)	200557
A12	ARP-13809	HIV-1 LTR Scanning Mutant (-255/-238 NXS CAT)	200566
B1	ARP-13810	HIV-1 LTR Scanning Mutant (-237/-220 NXS CAT)	200518
B2	ARP-13811	HIV-1 LTR Scanning Mutant (-219/-202 NXS CAT)	200519
B3	ARP-13812	HIV-1 LTR Scanning Mutant (-201/-184 NXS CAT)	200558
B4	ARP-13813	HIV-1 LTR Scanning Mutant (-183/-166 NXS CAT)	200520
B5	ARP-13814	HIV-1 LTR Scanning Mutant (-165/-148 NXS CAT)	200559
B6	ARP-13815	HIV-1 LTR Scanning Mutant (-147/-130 NXS CAT)	200564
B7	ARP-13816	HIV-1 LTR Scanning Mutant (-129/-112 NXS CAT)	200560
B8	ARP-13817	HIV-1 LTR Scanning Mutant (-111/-94 NXS CAT)	200571
B9	ARP-13818	HIV-1 LTR Scanning Mutant (-93/-76 NXS CAT)	200567



Table 1: HIV-1 LTR Scanning Mutants (continued)

Position	Catalog No.	Reagent Name	Lot No.
B10	ARP-13819	HIV-1 LTR Scanning Mutant (-75/-58 NXS CAT)	200565
B11	ARP-13820	HIV-1 LTR Scanning Mutant (-57/-40 CAT)	200561
B12	ARP-13821	HIV-1 LTR Scanning Mutant (-39/-22 NXS CAT)	200562
C1	ARP-13822	HIV-1 LTR Scanning Mutant (-24/-4 NXS CAT)	200521
C2	ARP-13823	HIV-1 LTR Scanning Mutant (-3/+15 NXS CAT)	200522
C3	ARP-13824	HIV-1 LTR Scanning Mutant (LTR wt CAT)	200523
C4	ARP-13825	HIV-1 LTR Scanning Mutant (-105/-81 XS+CAT)	200563
C5	ARP-13826	HIV-1 LTR Scanning Mutant (pG31 -453/-436 NXS)	200524
C6	ARP-13827	HIV-1 LTR Scanning Mutant (pG31 -435/-418 NXS)	200525
C7	ARP-13828	HIV-1 LTR Scanning Mutant (pG31 -417/-400 NXS)	200526
C8	ARP-13829	HIV-1 LTR Scanning Mutant (pG31 -399/-382 NXS)	200527
C9	ARP-13830	HIV-1 LTR Scanning Mutant (pG31 -381/-364 NXS)	200528
C10	ARP-13831	HIV-1 LTR Scanning Mutant (pG31 -363/-346 NXS)	200529
C11	ARP-13832	HIV-1 LTR Scanning Mutant (pG31 -345/-328 NXS)	200530
C12	ARP-13833	HIV-1 LTR Scanning Mutant (pG31 -327/-310 NXS)	200531
D1	ARP-13834	HIV-1 LTR Scanning Mutant (pG31 -309/-292 NXS)	200532
D2	ARP-13835	HIV-1 LTR Scanning Mutant (pG31 -291/-274 NXS)	200533
D3	ARP-13836	HIV-1 LTR Scanning Mutant (pG31 -273/-256 NXS)	200534
D4	ARP-13837	HIV-1 LTR Scanning Mutant (pG31 -255/-238 NXS)	200535
D5	ARP-13838	HIV-1 LTR Scanning Mutant (pG31 -237/-220 NXS)	200536
D6	ARP-13839	HIV-1 LTR Scanning Mutant (pG31 -219/-202 NXS)	200537
D7	ARP-13840	HIV-1 LTR Scanning Mutant (pG31 -201/-184 NXS)	200538
D8	ARP-13841	HIV-1 LTR Scanning Mutant (pG31 -183/-166 NXS)	200539
D9	ARP-13842	HIV-1 LTR Scanning Mutant (pG31 -165/-148 NXS)	200540
D10	ARP-13843	HIV-1 LTR Scanning Mutant (pG31 -147/-130 NXS)	200541
D11	ARP-13844	HIV-1 LTR Scanning Mutant (pG31 -129/-112 NXS)	200542
D12	ARP-13845	HIV-1 LTR Scanning Mutant (pG31 -111/-94 NXS)	200543
E1	ARP-13846	HIV-1 LTR Scanning Mutant (pG31 -93/-76 NXS)	200544
E2	ARP-13847	HIV-1 LTR Scanning Mutant (pG31 -75/-58 NXS)	200545
E3	ARP-13848	HIV-1 LTR Scanning Mutant (pG31 -57/-40 NXS)	200546
E4	ARP-13849	HIV-1 LTR Scanning Mutant (pG31 -39/-22 NXS)	200547
E5	ARP-13850	HIV-1 LTR Scanning Mutant (pG31 -21/-4 NXS)	200548
E6	ARP-13851	HIV-1 LTR Scanning Mutant (pG31 -3/+15 NXS)	200549
E7	ARP-13852	HIV-1 LTR Scanning Mutant (pG31 wt)	200550
E8	ARP-13853	HIV-1 LTR Scanning Mutant (pG31 -105/-81 XS+)	200568