

**Vector pLNCX2 Containing HLA-A\*3101 Allele**

**Catalog No. NR-2790**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

**Product Description:**

The HLA-A\*3101 allele from a human Major Histocompatibility Complex (MHC) Class I human leukocyte antigen (HLA)-homozygous human B-lymphoblastoid cell line (B-LCL) was amplified by PCR, gel purified and cloned into the Clontech Laboratories vector, pLNCX2 by the International Histocompatibility Working Group (IHWG). The plasmid was produced in *Escherichia coli* DH5 $\alpha$ <sup>TM</sup>-T1<sup>R</sup> cells (Invitrogen<sup>TM</sup>) and extracted using a QIAGEN<sup>®</sup> EndoFree<sup>®</sup> Plasmid Maxi Kit.

Allele:<sup>1</sup> HLA-A\*3101

Vector: pLNCX2

Insert Size: 1.15 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 1010

ImMunoGeneTics: [HLA00097](http://HLA00097)

GenBank: AJ889845

NR-2790 has been qualified for use in bacterial transformations.

**Material Provided:**

Each vial contains a concentration of 20 to 50 ng of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The DNA content and concentration are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-2790 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Vector pLNCX2 Containing HLA-A\*3101 Allele, NR-2790."

**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. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see [www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

**Disclaimers:**

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**References:**

1. Belich, M. P. et al. "Unusual HLA-B Alleles in Two Tribes of Brazilian Indians." Nature 357 (1992): 326-329. PubMed: 1317015.
2. Watkins, D. I., et al. "New Recombinant HLA-B Alleles in a Tribe of South American Amerindians Indicate Rapid Evolution of MHC Class I Loci." Nature 357 (1992): 329-333. PubMed: 1589035.
3. Kato, K., et al. "Molecular Analysis of the Serologically Defined HLA-Aw19 Antigens. A Genetically Distinct Family of HLA-A Antigens Comprising A29, A31, A32, and Aw33, But Probably Not A30." J. Immunol. 143

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- (1989): 3371-3378. PubMed: 2478623.
4. Arnett, K. L., E. J. Adams, and P. Parham. "On the Sequence of A\*3101." Tissue Antigens 47 (1996): 428-430. PubMed: 8795145.

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