

**Vector pLNCX2 Containing HLA-A\*2403 Allele**

**Catalog No. NR-2788**

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

**Contributor:**

Ellis L. Reinherz, M.D., Professor of Medicine, Dana-Farber Cancer Institute, Boston, Massachusetts

**Manufacturer:**

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

**Product Description:**

The HLA-A\*2403 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\*2403

Vector: pLNCX2

Insert Size: 1.15 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 9237

ImMunoGeneTics: [HLA00053](http://HLA00053)

GenBank: AF030913

NR-2788 has been qualified for use in bacterial transformations.

**Material Provided:**

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

**Packaging/Storage:**

NR-2788 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\*2403 Allele, NR-2788."

**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).

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**References:**

1. Little, A. M., J. A. Madrigal, and P. Parham. "Molecular Definition of an Elusive Third HLA-A9 Molecule: HLA-A9.3." Immunogenetics 35 (1992): 41-45. PubMed: 1729171.

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