

**Vector pLNCX Containing HLA-B\*4402 Allele**

**Catalog No. NR-2809**

**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-B\*4402 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, pLNCX, 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-B\*4402

Vector: pLNCX

Insert Size: 1.17 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

ImMunoGeneTics: [HLA00318](http://HLA00318)

GenBank: AJ309936

NR-2809 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-2809 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 pLNCX Containing HLA-B\*4402 Allele, NR-2809."

**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. Parham, P., et al. "Nature of Polymorphism in HLA-A, -B, and -C Molecules." Proc. Natl. Acad. Sci. U. S. A. 85 (1988): 4005-4009. PubMed: 3375250.
2. Shiina, T., et al. "Molecular Dynamics of MHC Genesis Unraveled by Sequence Analysis of the 1,796,938-bp HLA Class I Region." Proc. Natl. Acad. Sci. U. S. A. 96 (1999): 13282-13287. PubMed: 10557312.
3. Stewart, C. A., et al. "Complete MHC Haplotype Sequencing for Common Disease Gene Mapping." Genome Res. 14 (2004): 1176-1187. PubMed: 15140828.

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