

## Vector pLNCX2 Containing HLA-B\*4002 Allele

**Catalog No. NR-2808**

**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-B\*4002 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-B\*4002

Vector: pLNCX2

Insert Size: 1.17 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 9028

ImMunoGeneTics: [HLA00293](#)

GenBank: L09736

NR-2808 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-2808 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-B\*4002 Allele, NR-2808."

### 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/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

### Disclaimers:

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### References:

1. Domena, J. D., et al. "The B\*4002 Allele Encodes the B61 Antigen: B40\* is Identical to B61." Tissue Antigens 40 (1992): 254-256. PubMed: 1362296.
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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