

Vector pLNCX2 Containing HLA-B*5701 Allele

Catalog No. NR-2815

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*5701 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 α TM-T1^R cells (InvitrogenTM) and extracted using a QIAGEN[®] EndoFree[®] Plasmid Maxi Kit.

Allele:¹ HLA-B*5701

Vector: pLNCX2

Insert Size: 1.17 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 9420

ImMunoGeneTics: [HLA00381](#)

GenBank: AF196183

NR-2815 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-2815 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*5701 Allele, NR-2815."

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.

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References:

1. Isamat, M., J. Girdlestone, and C. Milstein. "Nucleotide Sequence of an HLA-Bw57 Gene." Nucleic Acids Res. 25 (1990): 6702. PubMed: 2251138.
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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