

Vector pLNCX2 Containing HLA-B*0801 Allele

Catalog No. NR-2796

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*0801 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 -T1^R cells (Invitrogen™) and extracted using a QIAGEN® EndoFree® Plasmid Maxi Kit.

Allele:¹ HLA-B*0801

Vector: pLNCX2

Insert Size: 1.17 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 9391

ImMunoGeneTics: [HLA00146](#)

GenBank: AJ295294

NR-2796 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-2796 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*0801 Allele, NR-2796.”

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.

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References:

1. Pohla, H., et al. “Allelic Variation in HLA-B and HLA-C Sequences and the Evolution of the HLA-B Alleles.” Immunogenetics. 29 (1989): 297-307. PubMed: 2714852.
2. Arnett, K. L., et al. “The Bw4/Bw6 Difference Between HLA-B*0802 and HLA-B*0801 Changes the Peptides Endogenously Bound and the Stimulation of Alloreactive T Cells.” Immunogenetics. 48 (1998): 56-61. PubMed: 9601944.

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