

Vector pLNCX2 Containing HLA-A*0204 Allele

Catalog No. NR-2780

For research use only. Not for human use.

Contributor:

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Product Description:

The HLA-A*0204 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:^{1,2} HLA-A*0204

Vector: pLNCX2

Insert Size: 1.15 kb

Selection: Ampicillin (Prokaryotic)/G418 (Eukaryotic)

IHWG B-LCL: 9016

ImMunoGeneTics: HLA00009

NR-2780 has been qualified for use in bacterial transformations.

Material Provided:

Each vial contains approximately 40 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-2780 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*0204 Allele, NR-2780."

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. Castaño, A. R. and J. A. López de Castro. "Structure of the HLA-A*0204 Antigen, Found in South American Indians. Spatial Clustering of HLA-A2 Subtype Polymorphism." *Immunogenetics* 34 (1991): 281-285. PubMed: 1937577.
2. Rombout, A. and I. De Canck. "Characterization of the A*0204 Allele." Direct Submission. GenBank: AJ297476.

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