

Datasheet for ABIN4928782

Human HLA-DQA2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	HLA-DQA2
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human HLA-DQA2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	768 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGATCCTAA ACAAAGCTCT GCTGCTGGGG GCCCTCGCCC TGA CTGCCGT GATGAGCCCC TGTGGAGGTG AAGACATTGT GGCTGACCAT GTTGCCCTCT ATGGTGTGAA CTTCTACCAG TCTCACGGTC CCTCTGGCCA GTACACCCAT GAATTTGATG GAGACGAGGA GTTCTATGTG GACCTGGAGA CGAAAGAGAC TGTCTGGCAG TTGCCTATGT TTAGCAAATT TATAAGTTTT

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Product Details

GACCCGCAGA GTGCACTGAG AAATATGGCT GTGGGAAAAC ACACCTTGGG ATTCATGATG
AGACAGTCCA ACTCTACCGC TGCCACCAAT GAGGTTCTCTG AGGTCACAGT GTTTTCCAAG
TTTCCTGTGA CGCTGGGTCA GCCCAACACC CTCATCTGTC TTGTGGACAA CATCTTTCCT
CCTGTGGTCA ACATCACCTG GCTGAGCAAT GGGCACTCAG TCACAGAAGG TGTTTTCTGAG
ACCAGCTTCC TCTCCAAGAG TGATCATTCC TTCTTCAAGA TCAGTTACCT CACCTTCCTC
CCTTCTGCTG ATGAGATTTA TGACTIONAAG GTGGAGCACT GGGGCCTGGA CGAGCCTCTT
CTGAAACACT GGGAGCCTGA GATTCCAGCC CCTATGTCAG AGCTCACAGA GACTTTGGTC
TGCGCCCTGG GGTTGTCTGT GGGCCTCATG GGCATTGTGG TGGGCACTGT CTTCATCATC
CAAGGCCTGC GTTCAGTTGG TGCTTCCAGA CACCAAGGGC TCTTATGA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: HLA-DQA2

Alternative Name: HLA-DQA2 ([HLA-DQA2 Products](#))

Background: This gene belongs to the HLA class II alpha chain family. The encoded protein forms a heterodimer with a class II beta chain. It is located in intracellular vesicles and plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (B lymphocytes, dendritic cells, macrophages) and are used to present antigenic peptides on the cell surface to be recognized by CD4 T-cells. [provided by RefSeq, Jun 2010].

Gene ID: 3118

NCBI Accession: [NM_020056](#)

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Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)