

Datasheet for ABIN4928779

## Human HLA-DQB2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

|              |                             |
|--------------|-----------------------------|
| Quantity:    | 10 µg                       |
| Gene:        | HLA-DQB2                    |
| 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-DQB2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.   |
| Brand:                | GenEZ™   |
| Insert Length:        | 684 bp   |
| Vector Backbone:      | pcDNA3.1+C-(K)-DYK   |
| Promoter:             | CMV Promoter   |
| Selectable Marker:    | Neomycin   |
| Bacterial Resistance: | Ampicillin   |
| Expression Type:      | Transient, Stable  |
| Sequence:             | <p>ATGGCTCTGC AGATCCCTGG AGGCTTTTGG GCAGCAGCTG TGACCGTGAT GCTGGTGATG</p> <p>CTGAGCACCC CAGTGGCTGA GGCCAGAGAC TTTCCCAAGG ATTTCTTGGT CCAGTTTAAG</p> <p>GGCATGTGCT ACTTCACCAA CGGGACAGAG CGCGTGCGCG GTGTGGCCAG ATACATCTAT</p> <p>AACCGCGAGG AGTACGGGCG CTTTCGACAGC GACGTTGGGG AGTTCCAGGC GGTGACCGAG</p> |

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## Product Details

CTGGGGCGGA GCATCGAGGA CTGGAACAAC TATAAGGACT TCTTGGAGCA GGAGCGGGCC  
GCGGTGGACA AGGTGTGCAG ACACAACTAC GAGGCGGAGC TGCGCACGAC CTTGCAGCGG  
CAAGTGGAGC CCACAGTGAC CATCTCCCCA TCCAGGACAG AGGCCCTCAA CCACCACAAC  
CTGCTGGTCT GCTCGGTGAC AGATTTCTAT CCAGCCCAGA TCAAAGTCCG GTGGTTTCGG  
AATGACCAGG AGGAGACAGC CGGTGTTGTG TCCACCTCCC TCATTAGGAA TGGTGACTGG  
ACCTTCCAGA TTCTGGTGAT GCTGGAAATA ACTCCCCAGC GTGGAGACAT CTACACCTGC  
CAAGTGGAGC ACCCCAGCCT CCAGAGCCCC ATCACCGTGG AGTGGCGACC TCGAGGGCCT  
CCACCAGCAG GACTCCTGCA CTGA

|                    |  |
|--------------------|--|
| 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: | <ul style="list-style-type: none"><li>• Forward primer: 5'-TAATACGACTCACTATAGGG-3'</li><li>• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'</li></ul>  |
| Grade:             | End-sequenced  |
| Components:        | The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.  |

## Target Details

|                   |   |
|-------------------|---|
| Gene:             | HLA-DQB2  |
| Alternative Name: | HLA-DQB2 ( <a href="#">HLA-DQB2 Products</a> )  |
| Background:       | HLA-DQB2 belongs to the family of HLA class II beta chain paralogs. Class II molecules are heterodimers consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. They play a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). Polymorphisms in the alpha and beta chains specify the peptide binding specificity, and typing for these polymorphisms is routinely done for bone marrow transplantation. However this gene, HLA-DQB2, is not routinely typed, as it is not thought to have an effect on transplantation. There is conflicting evidence in the literature and public sequence databases for the protein-coding capacity of HLA-DQB2. Because there is evidence of transcription and an intact ORF, HLA-DQB2 is represented in Entrez Gene and in RefSeq as a protein-coding locus. [provided by RefSeq, Oct 2010]. |

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## Target Details

|                 |                              |
|-----------------|------------------------------|
| Gene ID:        | 3120                         |
| NCBI Accession: | <a href="#">NM_001198858</a> |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |   |
|------------------|---|
| Format:          | Lyophilized   |
| Storage:         | RT/-20 °C   |
| Storage Comment: | <ul style="list-style-type: none"><li>• Keep the vial sealed and store at -20°C for long-term storage.</li><li>• Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.</li><li>• 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.</li><li>• If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.</li><li>• Close the lid and vortex the vial for 1 minute.</li><li>• Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.</li></ul> |

|              |           |
|--------------|-----------|
| Expiry Date: | 12 months |
|--------------|-----------|

## Publications

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