

Product datasheet for RC215902L4V

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HLA-DQB1 (NM_002123) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: HLA-DQB1 (NM 002123) Human Tagged ORF Clone Lentiviral Particle

Symbol: HLA-DQB1

Synonyms: CELIAC1; HLA-DQB; IDDM1

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_002123

ORF Size: 783 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC215902).

Sequence:

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeg: NM 002123.2

 RefSeq Size:
 1190 bp

 RefSeq ORF:
 786 bp

 Locus ID:
 3119

 UniProt ID:
 P01920

 Cytogenetics:
 6p21.32

Domains: MHC_II_beta, ig, IGc1

Protein Families: Transmembrane





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Protein Pathways: Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid

disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus

erythematosus, Type I diabetes mellitus, Viral myocarditis

MW: 29.7 kDa

Gene Summary: HLA-DQB1 belongs to the HLA class II beta chain paralogs. This class II molecule is a

heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays 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). The beta chain is approximately 26-28 kDa and it contains six exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the two

extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different

molecules. Typing for these polymorphisms is routinely done for bone marrow

transplantation. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Sep 2011]