

# Product datasheet for TP302892M

#### OriGene Technologies, Inc.

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## HLA DOB (HLA-DOB) (NM\_002120) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human major histocompatibility complex, class II, DO beta (HLA-DOB),

100 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC202892 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MGSGWVPWVVALLVNLTRLDSSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVVRFIFNLEEYVRFDSDV GMFVALTKLGQPDAEQWNSRLDLLERSRQAVDGVCRHNYRLGAPFTVGRKVQPEVTVYPERTPLLHQHNL LHCSVTGFYPGDIKIKWFLNGQEERAGVMSTGPIRNGDWTFQTVVMLEMTPELGHVYTCLVDHSSLLSPV

 ${\tt SVEWRAQSEYSWRKMLSGIAAFLLGLIFLLVGIVIQLRAQKGYVRTQMSGNEVSRAVLLPQSC}$ 

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK
Predicted MW: 30.6 kDa

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 002111

**Locus ID:** 3112



#### HLA DOB (HLA-DOB) (NM\_002120) Human Recombinant Protein - TP302892M

UniProt ID: <u>P13765</u>, <u>Q5QNS2</u>

RefSeq Size: 1388

Cytogenetics: 6p21.32

RefSeq ORF: 819

Synonyms: DOB; HLA\_DOB

Summary: HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a

heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one 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. [provided by RefSeq, Jul 2008]

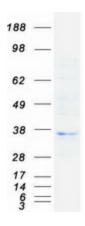
**Protein Families:** Transmembrane

**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

### **Product images:**



Coomassie blue staining of purified HLA-DOB protein (Cat# [TP302892]). The protein was produced from HEK293T cells transfected with HLA-DOB cDNA clone (Cat# [RC202892]) using

MegaTran 2.0 (Cat# [TT210002]).