

Product datasheet for SC122239

HLA DOB (HLA-DOB) (BC020226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA DOB (HLA-DOB) (BC020226) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA DOB
Synonyms:	DOB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC020226 edited GAAGAGGCTGACGATTTTACTATCTCATTTTTTTCCTTTCTCCAGAAATGGGTTCTGGGTG GGTCCCCTGGGTGGTGGCTCTGCTAGTGAATCTGACCCGACTGGATTCTCCATGACTCA AGGCACAGACTCTCCAGGTAAGAACAGAGCAATTGTTTTTTCCAGTGTGTATGCAAGAA TTGGCATGGGGAGTGATGCCTTTCTTTGTAAGTCCAGGCCACAGACCAGACTGGAAGTG GCTTTTGGTTTCAAAGAACAGTGTCTTCCCTTTGGCAGAAAGGTACGCCTTGCCTCTTT ACATGGGATGGACTTCATATACCAGAGCCACCTATTCAAGGGGTAGGGAGGCAGGAAGAG GGAAACATTGTGTCTTGTTTAGGATCCTTATTGTGTGTATCAACCTCAGTCAGTGCCTGG GCGTGTGAAGGCCTTGGCTTGGGTTTCGAGCCTGCTGGGAGAAACAACCTGCAGTAGGCT GGGTCACAGAGGCAATCTGTGATTTTTAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC020226 unedited NGGCGTTCAAATTTGTAATACGACTCACTATAGGGCCGGCCCGGAATTCGCACGAGGG AAGAGGCTGACGATTTTACTATCTCATTTTTTCTTTCTCCAGAATGGGTTCTGGGTGG GTCCCCTGGGTGGTGGCTCTGCTAGTGAATCTGACCCGACTGGATTCTCCATGACTCAA GGCACAGACTCTCCAGGTAAGAACAGAGCAATTGTTTTTCCAGTGTGTATGCAAGAAT TGGCATGGGGAGTGATGCCTTTCTTTGTAAGTCCAGGCCACAGACCAGACTGGAAGTGG CTTTTGGTTTTCAAGAACAGTGTCTTCCCTTTGGCAGAAAGGTACGCCTTGCCTTTTA CATGGGATGGACTTCATATACCAGAGCCACCTATTCAAGGGGTAGGGAGGCAGGAAGAGG GAAACATTGTGTCTTGTTTAGGATCCTTATTGTGTGTATCAACCTCAGTCAGTGCCTGGG CGTGTGAAGGCCTTGGCTTGGGTTGAGCCTGCTGGGAGAAACAACCTGCAGTAGGCTG GGTACAGAGGCAATCTGTGATTTTTAAAAAAAAAAAAAAAAAACTCGACTCTAGATTG CGGCCCGGTCATAGCTGTTTCTGAACAGATCCCGGTTGGCATCCCTGTGACCCCTCCC CAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGCCTAATAA AATTAAGTTGCATCATTTTGTCTGACTAGGTGCTTCTATAATATTATGGGGTGGAGGG GGTGGGTATTGGAACCAAGGGGCAAGTTGGGAAGACAACCTGTAGGGCTGCGGGGTCTA TTGGGAACCAACCTGGAATGCAATGGCACAACCTGGGCTCACTGCATTCTCCGCCTCCGG GTTCAAGCAA
Restriction Sites:	Please inquire
ACCN:	BC020226
Insert Size:	526 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC020226.1
RefSeq Size:	526 bp
Locus ID:	3112
Cytogenetics:	6p21.32
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

Gene 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]