

Product datasheet for SC122619

HLA DOB (HLA-DOB) (NM_002120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA DOB (HLA-DOB) (NM_002120) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA DOB
Synonyms:	DOB; HLA_DOB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002120 edited
TGAACCTATTCTGAAGAGGCTGACGATTTACTGTCTCATTTTTTCTTCTCCAGAAT
GGTTCTGGGTGGGTCCCCTGGGTGGCTCTGCTAGTGAATCTGACCCGACTGGATTC
CTCCATGACTCAAGGCACAGACTCTCCAGAAGATTTTGTGATTACAGCAAAGGCTGACTG
TTACTTACCAACGGGACAGAAAAGGTGCAAGTTTGTGGTCAGATTCATCTTAACTTGA
GGAGTATGACGTTTCGACAGTGTGTTGGGATGTTTGTGGCATTGACCAAGCTGGGGCA
GCCAGATGCTGAGCAGTGAACAGCCGGCTGGATCTTTGGAGAGGAGCAGACAGCCGT
GGATGGGGTCTGTAGACACAACACAGGCTGGGCGCACCCCTTCACTGTGGGGAGAAAAGT
GCAACCAGAGGTGACAGTGTACCCAGAGAGGACCCCACTCCTGCACCAGCATAATCTGCT
GCACTGCTCTGTGACAGGCTTCTATCCAGGGATATCAAGATCAAGTGGTTCCTGAATGG
GCAGGAGGAGAGAGCTGGGGTCATGTCCACTGGCCCTATCAGGAATGGAGACTGGACCTT
TCAGACTGTGGTATGCTAGAAATGACTCCTGAACTTGGACATGTCTACACCTGCCTTGT
CGATCACTCCAGCCTGCTGAGCCCTGTTTCTGTGGAGTGGAGAGCTCAGTCTGAATATTC
TTGGAGAAAGATGCTGAGTGGCATTGCAGCCTTCTACTTGGGCTAATCTTCTTCTGGT
GGGAATCGTCAATCCAGCTAAGGGCTCAGAAAGGATATGTGAGGACGCAGATGTCTGGTAA
TGAGGTCTCAAGAGCTGTTCTGCTCCCTCAGTCATGCTAAGGTCCTCACTGAAGCTTCTC
TCTCTGGAGCCTGAAGTAGTGTAGTAGTGTCTGGGCCCTGGGTGAGGTAAGGACATTCA
TGAGGTCAATGTTCTGGGAATAACTCTCTCCCTGATCCTTGGAGGAGCCCGAAGTATT
CTGGAGCTCTGTGTTCTGAGATCATGCATCTCCACCCATCTGCCCTTCTCCCTTCTACG
TGTACATCATTAAATCCCATTTGCCAAGGGCATTGTCCAGAACTCCCTGAGACCTTACT
CCTTCCAGCCCCAAATCATTTACTTTTCTGTGGTCCAGCCCTACTCCTATAAGTCATGAT
CTCCAAAGCTTTCTGTCTCCAAGTGCAGTCTCCACAGTCTTCCAGAACAAATGCTCAG
GTAGTCACTGTTTCTTTTCACTTTTTAAAAACCTTTTATTGTCAATAAAATGGAGATA
CAAAAAATGTAAAAA



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002120 unedited NNNCCAGTTCAAATATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGT GAACTCATTCTGAAGAGCTGACGATTTTACTGTCTCATTTTTTCTTTTCCAGAATGG GTTCTGGGTGGTCCCCTGGGTGGTGGCTCTGCTAGTGAATCTGACCCGACTGGATTCT CCATGACTCAAGGCACAGACTCTCCAGAAGATTTGTGATTGAGGCAAAGGCTGACTGTT ACTTCACCAACGGGACAGAAAAGGTGCAGTTTGTGGTCAGATTCATCTTTAACTTGGAGG AGTATGTACGTTTCGACAGTGATGTGGGATGTTTGTGGCATTGACCAAGCTGGGGCAGC CAGATGCTGAGCAGTGGAACAGCCGGCTGGATCTCTTGGAGAGGAGCAGACAGGCCGTGG ATGGGGTCTGTAGACACAACACTACAGGCTGGGCGCACCCCTCACTGTGGGGAGAAAAGTGC AACCAGAGGTGACAGTGTACCCAGAGAGGACCCCACTCCTGCACCAGCATAATCTGCTGC ACTGCTCTGTGACAGGCTTCTATCCAGGGGATATCAAGATCAAGTGGTTCCTGAATGGGC AGGAGGAGAGAGCTGGGGTCATGTCCACTGGCCCTATCAGGAATGGAGACTGGACCTTTC AGACTGTGGTGTGCTAGAAATGACTCCTGAACTTGGACATGTCTACACCTGCCTTGTCG ATCACTCCAGCCTGCTGAGCCCTGTTTCTGTGGAGTGGAGAGCTCAGTCTGAATATTCTT GGAGGAAGATGCTGAGTGGCATTGCAGCCTTCTACTTGGGCTAATCTTCTTCTGGTGG GAATCGTCATCCCCTAAGGGCTCAAAAAGATATGTGAGGACGCAAC
Restriction Sites:	Please inquire
ACCN:	NM_002120
Insert Size:	1348 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:	NM_002120.2 , NP_002111.1
RefSeq Size:	1322 bp
RefSeq ORF:	822 bp
Locus ID:	3112
UniProt ID:	P13765
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]