

## Product datasheet for **SC334917**

### HLA-DQB2 (NM\_001300790) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DQB2 (NM_001300790) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DQB2
Synonyms:	DQB2; HLA-DQB1; HLA-DXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001300790, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTGTGACCGTGATGCTGGTGATGCTGAGCACCC
CAGTGGCTGAGGCCAGAGACTTTCCCAAGGATTTCTTGGTCCAGTTAAGGGCATGTGCTACTTCACCAA
CGGGACAGAGCGCGTGCGCGGTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGGCGCTTCGACAGC
GACGTTGGGGAGTTCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACAATAAAGGACT
TCTTGGAGCAGGAGCGGGCCGCGGTGGACAAGGTGTGCAGACACAACACGAGGGCGGAGCTGCGCACGAC
CTTGCAGCGGCAAGTGGAGCCCACAGTGACCATCTCCCCATCCAGGACAGAGGCCCTCAACCACCACAAC
CTGCTGGTCTGCTCGGTGACAGATTTCTATCCAGCCCAGATCAAAGTCCGGTGGTTTCGGAATGACCAGG
AGGAGACAGCCGGTGTGTGTCCACCTCCCTCATTAGGAATGGTGACTGGACCTTCAGATTCTGGTGAT
GCTGAAAATAACTCCCCAGCGTGAGACATCTACACCTGCCAAGTGGAGCACCCAGCCTCCAGAGCCCC
ATCACCGTGGAGTGGCGGGCTCAGTCTGAATCTGCCAGAGCAAGATGCTGAGTGGCATTGGAGGCTTCG
TGCTGGGGCTGATCTTCTCGGGCTGGGCCTTATCATCCGTCACAGGGGTGAGAAAGGACCTCGAGGGCC
TCCACCAGCAGGACTCCTGCAC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001300790
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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001300790.1, NP_001287719.1</u>
<b>RefSeq Size:</b>	1233 bp
<b>RefSeq ORF:</b>	795 bp
<b>Locus ID:</b>	3120
<b>Cytogenetics:</b>	6p21.32
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>