

Product datasheet for **SC321694**

HLA (NM_182549) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA (NM_182549) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA
Synonyms:	HLA-DQB1; HLA-DXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_182549.1
TCTCACTTATGTCTTGGAAAGATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTG
TGACCGTGATGCTGGTGATGCTGAGCACCCAGTGGCTGAGGCCAGAGACTTTCCAAGG
ATTTCTTGGTCCAGTTTAAGGGCATGTGCTACTTCACCAACGGGACAGAGCGCGTGCGGG
GTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGGCGCTTCGACAGCGACGTTGGGG
AGTTCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACAATAAGGACT
TCTTGGAGCAGGAGCGGGCCGCGGTGGACAAGGTGTGCAGACACAACACGAGGCGGAGC
TACGCACGACCTTGCAGCGGCAAGTGGAGCCACAGTGACCATCTCCCCATCCAGGACAG
AGGCCCTCAACCACCACAACCTGCTGGTCTGCTCAGTGACAGATTCTATCCAGCCGAGA
TCAAAGTCCAGTGGTTTCGGAATGACCAGGAGGAGACAGCCGGTGTGTGTCCACCTCCC
TCATTAGGAATGGTGACTGGACCTTCCAGATTCTGGTGATGCTGGAATAACTCCCAGC
GTGGAGACATCTACACCTGCCAAGTGGAGCACCCAGCCTCCAGAGCCCCATCACCGTGG
AGTGGCGACCTCGAGGGCCTCCACCTGCAGGACTCCTGCAGTACTCCTGAGGACTTTTG
TCTGGGATTGGTCATCACTCTTCTGTAATGCCACCTGCCCTGCCGAGAATTCCTAGCT
GCCTGTGTCACTGTCCCACTGAGGTCAGAGTCTACAGTGGCTCATGCAGCCACAGGT
CACCTTCTGTGATCCCCATCCAAGGACTGGCGGTGACTCTGCTTCTGTACTGACCCA
GAGCCTCTGCCTGTGCACTGCAAGCTGTGTCTACTCAGGCCCAAGGGGCATCTCTGTTT
CCATTCTCCCCCACAGACCTGTCAAGAGAAGCATGACAAACAAAATCATTTACCTAACT
TTAGTGCTTTTTCCATAATTAACCTGATTCTGAGTTAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_182549



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_182549.1 , NP_872355.1
RefSeq Size:	1092 bp
RefSeq ORF:	696 bp
Locus ID:	3120
Cytogenetics:	6p21.32
Gene Summary:	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]