

Product datasheet for **SC315936**

HLA-DQA2 (NM_020056) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DQA2 (NM_020056) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DQA2
Synonyms:	DC-alpha; DX-ALPHA; HLA-DCA; HLA-DXA; HLA-DQA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_020056 edited
ATGATCCTAAACAAAGCTCTGCTGCTGGGGGCCCTCGCCCTGACTGCCGTGATGAGCCCC
TGTGGAGGTGAAGACATTGTGGCTGACCATGTTGCCTCCTATGGTGTGAACCTTCTACCAG
TCTCACGGTCCCTCTGGCCAGTACACCCATGAATTTGATGGAGACGAGGAGTTCTACGTG
GACCTGGAGACGAAAGAGACTGTCTGGCAGTTGCCTATGTTTAGCAAATTTATAAGTTTT
GACCCGCAGAGTGCACTGAGAAATATGGCTGTGGGAAAACACACCTTGAATTCATGATG
AGACAGTCCAACCTACCGCTGCCACCAATGAGGTTCTGAGGTCACAGTGTTCCTCAAG
TTTCCTGTGACGCTGGGTCAGCCCAACACCCTCATCTGTCTTGTGGACAACATCTTCCT
CCTGTGGTCAACATCACCTGGCTGAGCAATGGGCACTCAGTCACAGAAGGTGTTTCTGAG
ACCAGTTCCTCTCCAAGAGTGATCATTCTTCTCAAGATCAGTTACCTCACCTTCCTC
CCTTCTGCTGATGAGATTTATGACTGCAAGGTGGAGCACTGGGGCCTGGACGAGCCTCTT
CTGAAACACTGGGAGCCTGAGATTCCAGCCCCTATGTCAGAGCTCACAGAGACTTTGGTC
TGCGCCCTGGGGTTGTCTGTGGGCTCATGGGCATTGTGGTGGGCACTGTCTTCATCATC
CAAGGCCTGCGTTGAGTTGGTGTCTCCAGACACCAAGGGCTCTTATGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020056 unedited TACNACTCATATAGGCGGCCGCGNATTCANATCTGGTACCATGATCCTAAACAAAGCTCT GCTGCTGGGGCCCTCGCCCTGACTGCCGTGATGAGCCCCTGTGGAGGTGAAGACATTGT GGCTGACCATGTTGCCTCCTATGGTGTGAACTTCTACAGTCTCACGGTCCCTCTGGCCA GTACCCCATGAATTTGATGGAGACGAGGAGTTCTACGTGGACCTGGAGACGAAAGAGAC TGCTGGCAGTTGCCTATGTTTAGCAAATTTATAAGTTTTGACCCGCAGAGTGCACCTGAG AAATATGGCTGTGGGAAAACACACCTTGAATTCATGATGAGACAGTCCAACCTACCCG TGCCACCAATGAGGTTCTGAGGTCACAGTGTTTTCCAAGTTTCTGTGACGCTGGGTCA GCCAACACCCTCATCTGTCTTGTGGACAACATCTTCTCCTGTGGTCAACATCACCTG GCTGAGCAATGGGCACTCAGTCACAGAAGGTGTTTCTGAGACCAGCTTCTCTCCAAGAG TGATCATTCTTCTCAAGATCAGTTACCTCACCTTCTCCCTTCTGCTGATGAGATTTA TGACTGCAAGGTGGAGCACTGGGGCCTGGACGAGCCTTCTGAAACACTGGGAGCCTGA GATTCCAGCCCCTATGTCAGAGCTCACAGAGACTTTGGTCTGCGCCCTGNGGTTGTCTGT GGGCCTCATGGGCATTGGTGGGCACTGTCTTATCATCCAAGGCCTGCGTTCAGTTGG TGCTTCCAGACACCAAGGCTCTTATGATCTAGATTGCGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020056 unedited CCACATTGGNTGATGGCACTTNCAGNCCAGNANAGCACTGGGGNAGGGTACAGGGAT GCCACCCGGGATCTGTTCAAGAACAGCTATGACCGCGGCCGCAATCTAGATCATAAGAG CCCTTGGTGTCTGGAAGCACCAACTGAACGCAGGCCTGGATGATGAAGACAGTGGCCAC CACAATGCCCATGAGGCCACAGACAACCCAGGGCGCAGACAAAGTCTCTGTGAGCTC TGACATAGGGGCTGGAATCTCAGGCTCCAGTGTTCAGAAGAGGCTCGTCCAGGCCCA GTGCTCCACCTTGCACTATAAATCTCATCAGCAGAAGGGAGGAAGGTGAGGTAAGTAT CTTGAAGAAGGAATGATCACTCTTGGAGAGGAAGCTGGTCTCAGAAACACCTTCTGTGAC TGAGTGCCCATGCTCAGCCAGGTGATGTTGACCACAGGAGGAAAGATGTTGTCCACAAG ACAGATGAGGGTGTGGGCTGACCCAGCGTCACAGGAACTTGGAAAACACTGTGACCTC AGGAACCTCATTGGTGGCAGCGGTAGAGTTGGACTGTCTCATCATGAATTCGAAGGTGTG TTTTCCACAGCCATATTTCTCAGTGCCTCTGCGGGTCAAACTATAAATTTGCTAAA CATAGGCAACTGCCAGACAGTCTTTTCGTCTCCAGGTCCACGTAGAACTCCTCGTCTCC ATCAAATTCATGGGTGTACTGGCCAGAGGACCGTGAGACTGGTAGAAGTTCACACCANT AGAGGCAACATGGTCAGCCACAATGTCTTCACTNACAGGGGCTCATCACGGCAGTCAG GGCGAGGGCCCCCGCAGCAGAGCTTTTGTAGATCATGGTACCAGATCTGAATTNCGCGC CGNCTATAGTGAGTN</p>
Restriction Sites:	Please inquire
ACCN:	NM_020056
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_020056.2 , NP_064440.1
RefSeq Size:	1709 bp
RefSeq ORF:	768 bp
Locus ID:	3118
UniProt ID:	P01906
Cytogenetics:	6p21.32
Domains:	MHC_II_alpha, ig, IGc1
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:	This gene belongs to the HLA class II alpha chain family. The encoded protein forms a heterodimer with a class II beta chain. It is located in intracellular vesicles and plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (B lymphocytes, dendritic cells, macrophages) and are used to present antigenic peptides on the cell surface to be recognized by CD4 T-cells. [provided by RefSeq, Jun 2010]