

Product datasheet for SC118795

HLADQA1 (HLA-DQA1) (NM_002122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLADQA1 (HLA-DQA1) (NM_002122) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLADQA1
Synonyms:	CELIAC1; DQ-A1; DQA1; HLA-DQA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118795 sequence for NM_002122 edited (data generated by NextGen Sequencing) ATGATCCTAAACAAAGCTCTGCTGCTGGGGCCCTCGCTCTGACCACCGTGATGAGCCCC TGTGGAGGTGAAGACATTGTGGCTGACCACGTTGCCTCTTGTGGTGAAACTTGTACCAG TTTTACGGTCCCTCTGGCCAGTACACCCATGAATTTGATGGAGATGAGCAGTTCTACGTG GACCTGGAGAGGAAGGAGACTGCCTGGCGGTGGCCTGAGTTCAGCAAATTTGGAGGTTTT GACCCGCAGGGTGCAGTGAACATGGCTGTGGCAAACACAACCTTGAACATCATGATT AAACGCTACAACCTACCGCTGTACCAATGAGGTTCTGAGGTCACAGTGTTCCTCAAG TCTCCCGTGACACTGGGTGAGCCCAACACCCTCATCTGTCTTGTGGACAACATCTTCCT CCTGTGGTCAACATCACATGGCTGAGCAATGGGCAGTCAGTCACAGAAGGTGTTTCTGAG ACCAGCTTCTCTCCAAGAGTGATCATTCTTCTCAAGATCAGTTACCTCACCTTCCTC CCTTCTGCTGATGAGATTTATGACTGCAAGGTGGAGCACTGGGGCCTGGACCAGCCTCTT CTGAAACTGGGAGCCTGAGATTCCAGCCCCTATGTCAGAGCTCACAGAGACTGTGGTC TGTGCCCTGGGGTTGTCTGTGGGCCTCATGGGCATTGTGGTGGGCACTGTCTTCATCATC CAAGGCCTGCGTTGAGTTGGTGTCCAGACACCAAGGGCCATTGTGA

Clone variation with respect to NM_002122.3
396 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002122 unedited</p> <pre> CGGTGAGCATTGTTATACGATCACTATAGGCGGCCGGAATTCGCACGAGGCCAACTGC TGAGGCTGCCTTGGGAAGAGGATGATCCTAAACAAAGCTCTGCTGCTGGGGGCCCTCGCT CTGACCACCGTGATGAGCCCCTGTGGAGGTGAAGACATTTGGCTGACCACGTTGCCTCT TGTGGTGTAACTTGTACCAGTTTTACGGTCCCTCTGGCCAGTACACCCATGAATTTGAT GGAGATGAGCAGTTCTACGTGGACCTGGAGAGGAAGGAGACTGCCTGGCGGTGGCCTGAG TTCAGCAAATTTGGAGGTTTTGACCCGACGGGTGCACTGAGAAACATGGCTGTGGCAAAA CACAACCTGAACATCATGATTAACGCTACAACCTCTACCGCTGCTACCAATGAGGTTCT GAGGTCACAGTGTTCCTCAAGTCTCCCGTGACACTGGGTGAGCCCAACACCCTCATCTGT CTTGTGGACAACATCTTCTCCTGTGGTCAACATCACATGGCTGAGCAATGGGCAGTCA GTCACAGAAGGTGTTTCTGAGACCAGCTTCTCTCAAGAGTGATCATTCTTCTTCAAG ATCAGTTACCTCACCTTCTCCTTCTGCTGATGAGATTTATGACTGCAAGGTGGAGCAC TGGGGCCTGGACCAGCCTCTTCTGAAACACTGGGAGCCTGAGATCCAGCCCCTATGTCA GAGCTCACAGAGACTGTGGTCTGTGCCCTGNGGTTGTCTGTGGGCCTCATGGCATTGTG GTGGGCACTGTCTTCATCATCCAAGGCCTGCGTTCAGTTGGTGTCTCCAGACCAAGGG CCATTGTGAATCCATCCTGAANGGAAGGTGCATCGCCATCTACAGGAGCAGAAGAATGGA CTTGCTAAATGAC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002122 unedited</p> <pre> ATGGACCGCGCGCCGATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTCATAAAAGGA ATTTATTGCTTCTTGGAGATTTTAGATGGAGGTTACTGAGGAATTAGGTAGCCGGGTGG CTTACCCAGGCATGTTTTGTAGGTAACATTTGAGAAAAGAAAAAAAAAATCAGGAGGTC AGGGAAGAATGTAAGGCATTTGTGAGCTCTGAGGGATATAGCAGCTTAAGTCCAGA GAAAAGGTGAGAGGAGAAATATTTGAGAGGAAAAGGGATATGATAAATCGGGCCAGAGA ATAGTGCTAGGTCATTTAGCAAGTCCATTTCTGCTCCTGTAGATGGCGATGCACCTTC CCTTCCAGGATGGGATTCACAATGGCCCTTGGTGTCTGGAAGCACCAACTGAACGCAGGC CTTGGATGATGAAGACAGTGCACCACAATGCCCATGAGGCCACAGACAACCCAGGG CACAGACCACAGTCTCTGTGAGCTCTGACATAGGGGCTGGAATCTCAGGCTCCAGTGT TCAGAAGAGGCTGGTCCAGGCCCAAGTCTCCACCTTGCAGTCATAAATCTCATCAGCAG AAGGGAGGAAGGTGAGGTAACGATCTTGAAGAAGGAATGACTCTTGGAGAGGAAGC TGGTCTCAGAAAACCTTCTGTGACTGACTGCCATTGCTCAGCCATGTGATGTTGACCA CAGGAGGAAAGATGTTGTCACAAAGACAGATGAGGGTGTGGGCTGACCCAGTGTACGG GAGACTTGAAAAACACTGTGACCTCAGGAACCTCATTGGTAGCAGCGGTAGAGNTGTAGC GTTTAATCATGATGTTAAAGTGTGTTTTGCCACACCCATGTTCTCAGTGCACCCTGCGGG TCAAACCTCCAATTNGCTGA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002122
Insert Size:	1240 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_002122.3 , NP_002113.2
RefSeq Size:	1542 bp
RefSeq ORF:	768 bp
Locus ID:	3117
UniProt ID:	P01909
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:	HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays 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). The alpha chain is approximately 33-35 kDa. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. [provided by RefSeq, Jul 2008]