

## Product datasheet for SC126195

### HLA DP (HLA-DPA1) (BC009956) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HLA DP (HLA-DPA1) (BC009956) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA DP
Synonyms:	DP(W3); DP(W4); HLA-DP1A; HLADP; HLASB; PLT1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC009956 edited  
GCTCACAGTCATCAATTATAGACCCCAACAACATGCGCCCTGAAGACAGAATGTTCCATAT  
CAGAGCTGTGATCTTGAGAGCCCTCCTTGGCTTTCCTGCTGAGTCTCCGAGGAGCTGG  
GGCCATCAAGGGCGACCATGTGTCAACTTATGCCGCGTTTGTACAGACCCATAGACCAAC  
AGGGGAGTTTATGTTTGAATTTGATGAAGATGAGCAGTCTATGTGGATCTGGATAAAAA  
GGAGACCGTCTGGCATCTGGAGGAGTTTGGCCGAGCCTTTTCTTTGAGGCTCAGGGCGG  
GCTGGCTAACATTGCTATATTGAACAACAACCTGAATACCTTGATCCAGCGTTCCAACCA  
CACTCAGGCCCAATGATCCCCCTGAGGTGACCGTGTTCCTCAAGGAGCCTGTGGAGCT  
GGGCCAGCCCAACACCCTCATCTGCCACATTGACAGGTCTTCCACCAGTGCTCAACGT  
CACATGGCTGTGCAATGGGGAGCCAGTCACTGAGGGTGTGCTGAGAGCCTCTTCTGCC  
CAGAACAGATTACAGCTCCACAAGTTCCATTACCTGACCTTTGTGCCCTCAGCAGAGGA  
CGTCTATGACTGCAGGGTGGAGCACTGGGGCTTGACCAGCCGCTCCTCAAGCACTGGGA  
GGCCCAAGAGCCAATCCAGATGCCTGAGACAACGGAGACTGTGCTCTGTGCCCTGGGCT  
GGTGTGGGCTAGTGGGCATCATCGTGGGCACCGTCTCATATAAAGTCTCTGCGTTC  
TGGCCATGACCCCGGGCCAGGGGCCCTGTGAAATACTGTAAAGGTGACAAAAATATCT  
GAACAGAAGAGGACTTAGGAGAGATCTGAACTCCAGCTGCCCTACAACTCCGTCAACGC  
TTTTCTTCTCACTTCATGTGAAAACCTACCCAGTGGCTGACTGAATTGCTGACCTTCAA  
AATTAATGAATAAATGTTGACACTTTGATAGCACTGATATGGAGATTATCCTTTTCATTG  
AGCCTTTTATCCTCTGGTCTTCTTTGAAAAACCCCTCACTGTACCTTCTGAGAATACT  
CTAAGACCAATAAATACTTCAGTATTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
A



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC009956 unedited NCGGACCGCGAAATTCGGCAGGAGGGCTCACAGTCATCAATTATAGNACCCACAAACATG CGCCCTGAAGACAGAATGTTCCATATCAGAGCTGTGATCTTGAGAGCCCTCTCCTTGGCT TTCCTGCTGAGTCTCCGAGGAGCTGGGGCCATCAAGGCGGACCATGTGTCAACTTATGCC GCGTTTGTACAGACCCATAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGATGAG CCAGTCTATGTGGATCTGGGTAAAAAAGAAAACCGCCTGGGCATTTGAAGATTTTGGCC CAAACCTTTTCTTTGGGGCTTAAGGGGGGGCTGGGCAAACTGTTTTTTTTTGGAAAC ACACTTTAAAACCTTTGTACCCCGTTTACCCCCCTTGTGGGCCCAAAAAACCCCC CCGGGGGAACCTTTTTCCCAAAAAAATTTGGGTTTGGTGCCCCCCCCCCCCCTTTT TTCAAAAAAGAGGGGTTCCCCCCCCGGGAAAAAAATATTTTTTGGGGGGGGGCCA CCCCCCAGGGGGGGGGGAAAAACCCCTCTCCCCCCTCAAAAAAACCACCC CAACNNNNTCTTTTCTCNTTCCCCCCCCCCCCCNANAAAAAATTTATTTT TTTGTGGGGGGGGGGTGTTTTTTTTTTTTCCCACCCCCCCCCCTCCTTTCTGG GGGGGGGGGGAGGGGGCCGACACCCCTTTTTTATCCCAATATAACATCATCCCC CCTCCTNTTCTTTTTTCTGGCCAGCGGGGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC009956
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">BC009956.2</a> , <a href="#">AAH09956.1</a>
<b>RefSeq Size:</b>	1201 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	3113
<b>Cytogenetics:</b>	6p21.32
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta (DPB) chain, 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 and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules. [provided by RefSeq, Jul 2008]