

Product datasheet for SC120116

HLA DP (HLA-DPA1) (NM_033554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA DP (HLA-DPA1) (NM_033554) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA DP
Synonyms:	DP(W3); DP(W4); DPA1; HLA-DP1A; HLA-DPA; HLA-DPB1; HLADP; HLASB; PLT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120116 sequence for NM_033554 edited (data generated by NextGen Sequencing)

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ATGCGCCCTGAAGACAGAATGTTCCATATCAGAGCTGTGATCTTGAGAGCCCTCTCCTTG
GCTTTCTGCTGAGTCTCCGAGGAGCTGGGCCATCAAGGCGGACCATGTGTCAACTTAT
GCCGCGTTTGTACAGACGCATAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGAT
GAGATGTTCTATGTGGATCTGGACAAGAAGGAGACCGTCTGGCATCTGGAGGAGTTGGC
CAAGCCTTTTCTTTGAGGCTCAGGGCGGGCTGGCTAACATTGCTATATTGAACAACAAC
TTGAATACCTTGATCCAGCGTTCCAACCACACTCAGGCCACCAACGATCCCCCTGAGGTG
ACCGTGTTCCTCAAGGAGCCTGTGGAGCTGGGCCAGCCCAACACCCTCATCTGCCACATT
GACAAGTTCCTCCACCAGTCTCAACGTCACGTGGCTGTGCAACGGGGAGCTGGTCACT
GAGGGTGTGCTGAGAGCCTCTTCTGCCAGAACAGATTACAGCTTCCACAAGTTCCAT
TACCTGACCTTTGTGCCCTCAGCAGAGGACTTCTATGACTGCAGGTGGAGCACTGGGGC
TTGGACCAGCCGCTCCTCAAGCACTGGGAGGCCAAGAGCCAATCCAGATGCCTGAGACA
ACGGAGACTGTGCTCTGTGCCCTGGGCCTGGTGTGGGCCTAGTCGGCATCATCGTGGGC
ACCGTCTCATATAAAGTCTCTGCGTTCTGGCCATGACCCCGGGCCAGGGGACCCCTG
TGA

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Clone variation with respect to NM_033554.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033554 unedited</p> <pre> AGCATTTTGTAAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCCTCATCAC TGTTCTGTGCTCACAGTCATCAATTATAGACCCACAAACATGCGCCCTGAAGACAGAAT GTTCCATATCAGAGCTGTGATCTTGAGAGCCCTCCTTGGCTTTCCTGCTGAGTCTCCG AGGAGCTGGGGCCATCAAGGCGGACCATGTGTCAACTTATGCCCGTTTGTACAGACGCA TAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGATGAGATGTTCTATGTGGATCT GGACAAGAAGGAGACCGTCTGGCATCTGGAGGAGTTTGGCCAAGCCTTTTCTTTGAAGC TCAGGGCGGGCTGGCTAACATTGCTATATTGAACAACAACCTTGAATACCTTGATCCAGCG TTCCAACCACACTCAGGCCACCAACGATCCCCCTGAGGTGACCGTGTTCCTCAAGGAGCC TGTGGAGCTGGGCCAGCCCAACACCCTCATCTGCCACATTGACAAGTTCTTCCCACCAGT GCTCAACGTCACGTGGCTGTGCAACGGGGAGCTGGTCACTGAGGGTGTGCTGAGAGCCT CTTCTGCCCAGAACAGATTACAGCTTCCACAAGTTCCATTACCTGACCTTTGTGCCCTC AGCAGAGGACTTCTATGACTGCAGGGTGGACCACTGGGGCTTGGACCAGCCGCTCCTCAA GCACTGGGAGGCCCCAGAGCCAATCCANATGCCTGAGACACCGGAAACTGTGCCCTGTGC CCTGTGCCTGGTGTGGGCCCATCCGGCATCATCTGGGCCCGTCCCTAATATAAAAAAT CCTGCGTTTTGGCCCTGACCCCCCGGCCCCAGGGGACCCTGTGAAAAACCGGAAAGGGGA CAAAAATCCCAGCAGCAAAAGGACTAAGAAGAACTGAACCTCACCTGCCACAAACTCCT CTT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033554 unedited</p> <pre> CCCTCCGTCCTCGCGGCCCGCCCTCCTCCCTCGCATTTGATCTGTAGNC ACNCGCCGNCCCGCCACTCCTCGATGATNCCGAGCTTCTTCTTTCTTTCTTTCC CTGNAAACTACTCGAAGTATCTTATCTGGTTCTCTAGGGTCACTCTCGGGCAAGGTGACA GGGAGGGTTCTTACAGGACAACAGAGGACACCAGGCTCACTGACAGGATACTCCTCAT ATTAGTGTACACAGTGCATTAATTTCTATTTGTGCGAACTTTACTAAGGACTGACT GCTTCGAGGCAATGGATAACGACAGAGCTCGACGGGCCACTAATCACTCAGCCACTGGA CTAGCTTTCACATGAAGCGAGAATAAAAGCTTGACATGGAGTTTCGTACGCCCCCTGCAGC TTCAGATCTCTCCTAACTCCTCTCTGCTCAGATATCTCTGAACCTTTACAGTATCCAC AGCGCCCCCTGTGCCCCGGGTATGGCCAGAACCACAGACTTTATGATCAGGACGGT GCCACAATCACGCCGACTACGCCCCAGCCCCAGCCCCGGGCACATAAAACAGTCTCC CTTGCTCCTCCGATCCGGATTGGCCCCCTGGGCCCCCCAGGGCTTTGAGGCACCCGCCGG CCCAAGACCCCAAGCTTCCACCTGCAATCATAACAACCTTTGCTGACCCGAACCAACGT TCCGTTATCGTACCCTGTGGAACGCTTCCCCCTGTCCCGGCCAAGACCCGATCCCCCCC CACCCCTCCAGCGCCGTTTCCCCGTTGTACCACCCACGTGACTCCCCAACCCGCGC GCCAAAACCTCCCCACGTGCTCCACCACGCCCTCCCCCTCCCCAACTTCCCCGCTTT TTGTTAACCCCCCCCCCTCCCGGGCTCCCCAACCCCCCAACCCGGTTGCCACCCCC CCCCCGTTACAGCCCTCTCCACCACCTAGTTCCCCACCCGTTCTTCTCT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_033554
Insert Size:	1170 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_033554.2 , NP_291032.2
RefSeq Size:	1157 bp
RefSeq ORF:	783 bp
Locus ID:	3113
UniProt ID:	P20036
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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript. Variants 1, 2 and 3 encode the same protein.</p>