

Product datasheet for SC125953

HLA (BC024269) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HLA (BC024269) Human Untagged Clone
Tag: Tag Free
Symbol: HLA
Synonyms: DRB1; DRw10; HLA-DR1B; HLA-DRB; SS1
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene sequence for BC024269 edited

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CTCACCTGCTCCTCTGGCCCTGGTCCTGTCTGTCTCCAGCATGGTGTGTCTGAAGTT
CCCTGGAGGCTCCTGCATGGCAGCTCTGACAGTGACACTGATGGTGTGAGCTCCCCACT
GGCTTTGGCTGGGGACACCCGACCAGTTTCTTGGAGCAGGTTAAACATGAGTGTCAATTT
CTTCAACGGGACGGAGCGGGTGCGGTTCCTGGACAGATACTTCTATCACCAAGAGGAGTA
CGTGCGCTTCGACAGCGACGTGGGGGAGTACGGGGCGGTGACGGAGCTGGGGCGGCTAG
CGCCGAGTACTGGAACAGCCAGAAGGACCTCCTGGAGCAGAGGGCGGCGGTTGGACAC
CTACTGCAGACACAACACTACGGGGTTGTGGAGAGCTTACAGTGCAGCGGCGAGTCTATCC
TGAGGTGACTGTGTATCCTGCAAAGACCCAGCCCTGCAGCACCACAACCTCCTGGTCTG
CTCTGTGAATGGTTTCTATCCAGGCAGCATTGAAGTCAGGTGGTTCCGGAACGGCCAGGA
AGAGAAGACTGGGGTGGTGTCCACAGGCCTGATCCAGAATGGAGACTGGACCTTCCAGAC
CCTGGTGTGCTGAAACAGTTCCTCGGAGTGGAGAGGTTTACACCTGCCAAGTGGAGCA
CCCAAGCCTGACGAGCCCTCTCACAGTGGAAATGGAGAGCACGGTCTGAATCTGCACAGAG
CAAGATGCTGAGTGGAGTCGGGGGCTTCGTGCTGGGCCTGCTCTTCTTGGGGCCGGGCT
GTTCACTACTTCAGGAATCAGAAAGGACACTCTGGACTTCAGCCAACAGGATTCCTGAG
CTGAAGTGAAGATGACCACATTCAGGAAGAACCTTCTGCCCCAGCTTTGCAGGATGAAA
CACTTCCCCGCTTGGCTCTCATTCTTCCACAAGAGAGACCTTTCTCCGGACCTGGTTGCT
ACTGGTTTCAGCAGCTCTGCAGAAAATGTCTCCCTTGTGGCTGCCTCAGCTCGTACCTTT
GGCCTGAAGTCCCAGCATTAATGGCAGCCCTCATCTTCCAAGTTTTGTGCTCCCCTTTA
CCTAATGCTTCCCTGCCTCCCATGCATCTGTACTCCTGCTGTGCCACAAACACATTACATT
ATTAATGTTTCTCAAACAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC024269 unedited GCAGTTTATATTTGTATACGACTCATATAGGCGGCCGCGTAATTCGCACGAGGCTCACCT GCTCCTCTGGCCCTGGTCTGTCTGTCTCCAGCATGGTGTGTCTGAAGTTCCCTGGA GGCTCCTGCATGGCAGCTCTGACAGTGACACTGATGGTGTGAGCTCCCCACTGGCTTTG GCTGGGGACACCCGACCAGTTTCTTGGAGCAGGTTAAACATGAGTGTCAATTTCTCAAC GGACGGAGCGGGTGGGTTCTTGACAGATACTTCTATCACCAAGAGGAGTACGTGCGC TTCGACAGCGACGTGGGGGAGTACCGGGCGGTGACGGAGCTGGGGCGGCCTAGCGCCGAG TACTGGAACAGCCAGAAGGACCTCTGGAGCAGAGGCGGCCGCGGTGGACACCTACTGC AGACACAACACTACGGGTTGTGGAGAGCTTACAGTGCAGCGGCGAGTCTATCCTGAGGTG ACTGTGTATCCTGCAAAGACCCAGCCCCTGCAGCACCACAACCTCCTGGTCTGCTCTGTG AATGGTTTCTATCCAGGCAGCATTGAAGTCAGGTGGTTCCGGAACGGCCAGGAAGAGAAG ACTGGGGTGGTGTCCACAGGCCTGATCCAGAATGGAGACTGGACCTTCCAGACCTGGTG ATGCTGGAACAGTTCTCGGAGTGGAGAGGTTTACACCTGCCAAGTGGAGCACCCAAGC CTGACGAGCCCTCTCACAGTGAATGGAGAGCACGGTCTGAATCTGCACAGCAAGATG CTGAGTGGAGTCGGGGGCTTCGTGCTGGGCCTGCTCTTCTGGGGCCGGGCTGTTCAATTT CTTCAGGAATAAAAAGACACTCTGGACTCACCCAAAGGATTCTGAGCGAAATGAAGAGAC CACTTC
Restriction Sites:	NotI-NotI
ACCN:	BC024269
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:	BC024269.1 , AAH24269.1
RefSeq Size:	1177 bp
Locus ID:	3123
Cytogenetics:	6p21.32
Protein Families:	Transmembrane
Protein Pathways:	Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Hematopoietic cell lineage, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis

Gene Summary:

HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), 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. The beta chain is approximately 26-28 kDa. It is encoded by 6 exons. Exon one encodes the leader peptide; exons 2 and 3 encode the two extracellular domains; exon 4 encodes the transmembrane domain; and exon 5 encodes the cytoplasmic tail. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and some alleles have increased frequencies associated with certain diseases or conditions. For example, DRB1*1302 has been related to acute and chronic hepatitis B virus persistence. There are multiple pseudogenes of this gene. [provided by RefSeq, Jul 2020]