

Product datasheet for SC315937

HLA-DRB4 (NM_021983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DRB4 (NM_021983) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DRB4
Synonyms:	DR4; DRB4; HLA-DR4B; HLA-DRB4*
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_021983 edited
GGGGGGCCATAGTTCTCCCTGATTGAGACTTGCCTGCTGCTGTGACCACTGGTCTTGTCC
TCTTCTCCAGCATGGTGTGTCTGAAGCTCCCTGGAGGCTCCTGTATGGCAGCGCTGACAG
TGACATTGACGGTGCTGAGCTCCCCACTGGCTTTGGCTGGGACACCCAACCACGTTTCT
TGGAGCAGGCTAAGTGTGAGTGTCAATTCCTCAATGGGACGGAGCGAGTGTGGAACCTGA
TCAGATACATCTATAACCAAGAGGAGTACGCGCGCTACAACAGTGACCTGGGGGAGTACC
AGGCGGTGACGGAGCTGGGGCGGCTGACGCTGAGTACTGGAACAGCCAGAAGGACCTCC
TGGAGCGGAGGCGGGCCGAGGTGGACACCTACTGCAGATACTACGGGGTTGTGGAGA
GCTTACAGTGCAGCGGCGAGTCCAACCTAAGGTGACTGTGTATCCTTCAAAGACCCAGC
CCCTGCAGCACCACAACCTCCTGGTCTGCTCTGTGAATGGTTTCTATCCAGGCAGCATTG
AAGTCAGGTGGTCCGGAACGGCCAGGAAGAGAAGGCTGGGGTGGTGTCCACAGGCTGA
TCCAGAATGGAGACTGGACCTTCCAGACCCTGGTGTGCTGGAACAGTTCTCCTGGAGTG
GAGAGGTTTACACCTGCCAAGTGGAGCATCCAAGCATGATGAGCCCTCTCACGGTGAAT
GGAGTGCACGGTCTGAATCTGCACAGAGCAAGATGCTGAGTGGAGTGGGGGCTTTGTGC
TGGGCTGCTCTTCTTGGGACAGGGCTGTTCACTACTCAGGAATCAGAAAGGACACT
CTGGACTTCAGCCAACAGGACTCTTGAAGTGAAGTGCAGATGACCACATTCAAGGAAGAA
CCTTCTGCCCCAGCTTTGCAAGATGAAAAGCTTCCCCTTGGCTCTTATCTTCCACAA
GAGCTTTGTCAGGACCAGGTTGTTACTGGTTCAGCAACTCTGCAGAAAATGTCTCCCTT
GTGGCTTCCCTTAGCTCCTGTTCTTGGCCTGAAGCCTCACAGCTTTGATGGCAGTGCCTCA
TCTTCAACAGGAGAATCACTTGTAAACCCGGGAGGAGGTTCCGGTGAGACAAGATCACGC
CATTGCACTCCAGCATGGGCAAAAAGAGGTAAAACTCCTGTCAAAAAAAAAAAAAAAAAA
AA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021983 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCACTGGTCTTGTCTCTTCT
 CCAGCATGGTGTGTCTGAAGCTCCCTGGAGGCTCCTGTATGGCAGCGCTGACAGTGACAT
 TGACGGTGTGAGCTCCCCACTGGCTTTGGCTGGGGACACCCAACCACGTTTCTTGGAGC
 AGGCTAAGTGTGAGTGTCAATTCCTCAATGGGACGGAGCGAGTGTGGAACCTGATCAGAT
 ACATCTATAACCAAGAGGAGTACGCGCGCTACAACAGTGACCTGGGGGAGTACCAGGCGG
 TGACGGAGCTGGGGCGGCTGACGCTGAGTACTGGAACAGCCAGAAGGACCTCCTGGAGC
 GGAGCGGGCCGAGGTGGACACCTACTGCAGATACAACACTACGGGGTTGTGGAGAGCTTCA
 CAGTGCAGCGGCGAGTCCAACCTAAGGTACTGTGTATCCTTCAAAGACCCAGCCCTGC
 AGCACCACAACCTCCTGGTCTGCTCTGTGAATGGTTTCTATCCAGGCAGCATTGAAGTCA
 GGTGGTCCGGAACGGCCAGGAAGAGAAGGCTGGGGTGGTGTCCACAGGCCTGATCCAGA
 ATGGAGACTGGACCTTCCAGACCCTGGTGTGCTGAAACAGTTCCTCGGAGTGGAGAGG
 TTTACACCTGCCAAGTGGAGCATCCAAGCATGATGAGCCCTCACGGTGAATGGAGTG
 CACGGTCTGAATCTGCACAGAGCAAGATGCTGAGTGGAGTCGGNGGCTTTGTGCTNGGCC
 TGCTCTTCTTTGGACAGNCTGTTTCACTACTNCAGAATCAGAAGGACACTCTGGACT
 TTCAGCCACAGACTCTTGAGCTGAAGTGCAGATGACCACATCAGGNAGAACCTCTGCCCN
 ACTTGCAGATGAAAGCTTCCACTNGCTCTTATCTTCCAGAGCTTGTGCAGACAGNTGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021983 unedited
 CTATGGACCGGTGCCGCAATTTANNGATCGGTTTTTTTTTTTTTTTTTTTTTGTGACAGGAGT
 TTTTACCTCTTTTTGCCATGCTGGAGTGAATGGCGTGATCTTGTCTCACCGGAACCTG
 CCTCCCGGTTACAAGTATTCTCCTGTTGAAGATGAGGCACTGCCATCAAAGCTGTGAG
 GCTTCAGGCCAAGAACAGGAGCTAAGGAAGCCACAAGGGAGGACATTTTCTGCAGAGTTG
 CTGAACCAGTAACAACCTGGTCCGACAAGCTCTTGTGGAAGAATAAGAGCCAAGTGGG
 AAAGCTTTTCATCTTGAAGCTGGGGCAGAAGTTCTTCTTGAATGTGGTCTATCTGCA
 CTTCAGCTCAAGAGTCTGTTGGCTGAAGTCCAGAGTGTCTTTCTGATTCTGAAGTAG
 ATGAACAGCCCTGTCCCAAGGAAGAGCAGGCCAGCACAAGCCCGGACTCCACTCAGC
 ATCTTGCTCTGTGCAGATTGAGACCGTGCCTCCATTGCACCGTGTGAGAGGGCTCATCATG
 CTTGGATGCTCCACTTGGCAGGTGTAACCTCTCCACTCCGAGGAACTGTTTCCAGCATC
 ACCCAGGGCTGGGAGGTCCAGTCTCCATTCTGGATCAGGCCCTGTGGACACCACCCAGC
 CTTCTCTTCTGGCCGTTTCGGGACCACCTGACTTCAATGCTGCCTGGATAGAAAAACAT
 TCCAGAGCAGACCAGAGGTTGTGGGTGCTGCAAGGGCCTGGTCTTTTTAGGGATACACA
 GCCCCCTTAAGTTGGGACTCGCCGCTGCCCTGTGAAGCTTCTCCACCCCTAGTTGTTT
 TGCAGAAGTGTCCCCCTCGGCCGCTCCCTTCCAGAGGGCCTTCTGGTGTGCAGTACTAAG
 GTAGGGCGCCCAATTCCTACCGTGGGACTCCCCCGGACATGTTGTACGGC

Restriction Sites:

NotI-NotI

ACCN:

NM_021983

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_021983.4 , NP_068818.4
RefSeq Size:	1193 bp
RefSeq ORF:	801 bp
Locus ID:	3126
UniProt ID:	P13762
Cytogenetics:	6p21.3
Domains:	MHC_II_beta, 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, Hematopoietic cell lineage, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis
Gene Summary:	HLA-DRB4 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DRA) and a beta (DRB) 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. The beta chain is approximately 26-28 kDa and its gene contains 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. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. There are multiple pseudogenes of this gene. [provided by RefSeq, Feb 2020]