

Product datasheet for **SC128256**

HLA-DRB5 (NM_002125) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DRB5 (NM_002125) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DRB5
Synonyms:	HLA-DRB5*
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002125 edited ATGGTGTGTCTGAAGCTCCCTGGAGTTCCTACATGGCAAAGCTGACAGTGACACTGATG GTGCTGAGCTCCCCTGGCTTTGGCTGGGGACCCGACCAGTTTCTGCAGCAGGAT AAGTATGAGTGTCAATTTCTCAACGGGACGGAGCGGGTGCGTTCTGCACAGAGACATC TATAACCAAGAGGAGGACTTGCCTTCGACAGCGACGTGGGGAGTACCGGGCGGTGACG GAGCTGGGGCGCCTGACGCTGAGTACTGGAACAGCCAGAAGGACTTCTGGAAGACAGG CGCGCCGCGGTGGACACCTACTGCAGACACAACCTACGGGGTTGGTGAAGCTTCACAGT CAGCGGCGAGTTGAGCCTAAGGTGACTGTGTATCCTGCAAGGACCCAGACCCTGCAGCAC CACAACTCCTGGTCTGCTCTGTGAATGGTTTCTATCCAGGCAGCATTGAAGTCAGGTGG TTCCGGAACAGCCAGGAAGAGAAGGCTGGGGTGGTGTCCACAGGCCTGATTCAGAATGGA GACTGGACCTTCAGACCCTGGTATGCTGGAACAGTTCCTCGAAGTGGAGAGGTTTAC ACCTGCCAAGTGGAGCACCAAGCGTGACGAGCCCTCTCACAGTGAATGGAGAGCACAG TCTGAATCTGCACAGAGCAAGATGCTGAGTGGAGTCGGGGCTTTGTGCTGGGCCTGCTC TTCTTGGGGCCGGGCTATTCATCTACTTCAAGAATCAGAAAGGGCACTCTGGACTTCAC CCAACAGGACTCGTGAGCTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002125 unedited AGGAATTTGTATACGACNACTATAGGCGGCACGCGAATTCGCACCAGGTCTGTCTGTT CTCCAGCATGGTGTGTCTGAAGCTCCCTGGAGGTTCTACATGGCAAAGCTGACAGTGAC ACTGATGGTGTGCTGAGCTCCCCACTGGCTTTGGCTGGGGACACCCGACCAGTTTCTTGCA GCAGGATAAGTATGAGTGTCAATTTCTTCAACGGGACGGAGCGGGTGCAGTTCTGCACAG AGACATCTATAACCAAGAGGAGGACTTGCCTTCGACAGCAGCAGTGGGGGAGTACCGGGC GGTGACGGAGCTGGGGCGCCTGACGCTGAGTACTGGAACAGCCAGAAGGACTTCCTGGA AGACAGGCGCGCGGGTGGACACCTACTGCAGACACAACCTACGGGGTTGGTGAGAGCTT CACAGTGCAGCGCGAGTTGAGCCTAAGGTGACTGTGTATCCTGCAAGGACCCAGACCCT GCAGCACCACAACCTCCTGGTCTGCTCTGTGAATGGTTTCTATCCAGGCAGCATTGAAGT CAGGTGGTTCGGAAACAGCCAGGAAGAGAATGCTGGGGTGGTGTCCACAGGCCTGATTCA GAATGGAGACTGGACCTCCAGACCCTGGTGTGCTGGAACAGTTCTCGAAGTGGAGA TGTTTACACCTGCCAAGTGGAGCACCCAAGCGTGACGAGCCCTCTCACAGTGAATGGAG AGCACAGTCTGAATCTGCACANATCAAGATGCTGAGTGGNAGTCGGGGCTTTGTGCTGGG CCTGCTTCTCCTGGGGCCGGGCATTCATCTACTTCAAGATCAGAAAGGCACTCTGGACTC ACCCACANGACTCTGAGCTGAGTGCANAGACCACATCAAGGGGAACCTCTGCCACGCTTG CATGAGAAAGCTTNTGCTGGCTCTATTCTCCAGAGAGACTTCTCAGCCTGGTGTACG GTCACACTCTGAAATGTCATCTGGGGCTNCTACTCTGCT
Restriction Sites:	NotI-NotI
ACCN:	NM_002125
Insert Size:	1200 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:	<u>NM_002125.3</u> , <u>NP_002116.2</u>
RefSeq Size:	1171 bp
RefSeq ORF:	801 bp
Locus ID:	3127
UniProt ID:	<u>Q30154</u>
Cytogenetics:	6p21.32
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-DRB5 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]