

Product datasheet for RC203646

HLA-DRB5 (NM_002125) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	HLA-DRB5 (NM_002125) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HLA-DRB5
Synonyms:	HLA-DRB5*
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC203646 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

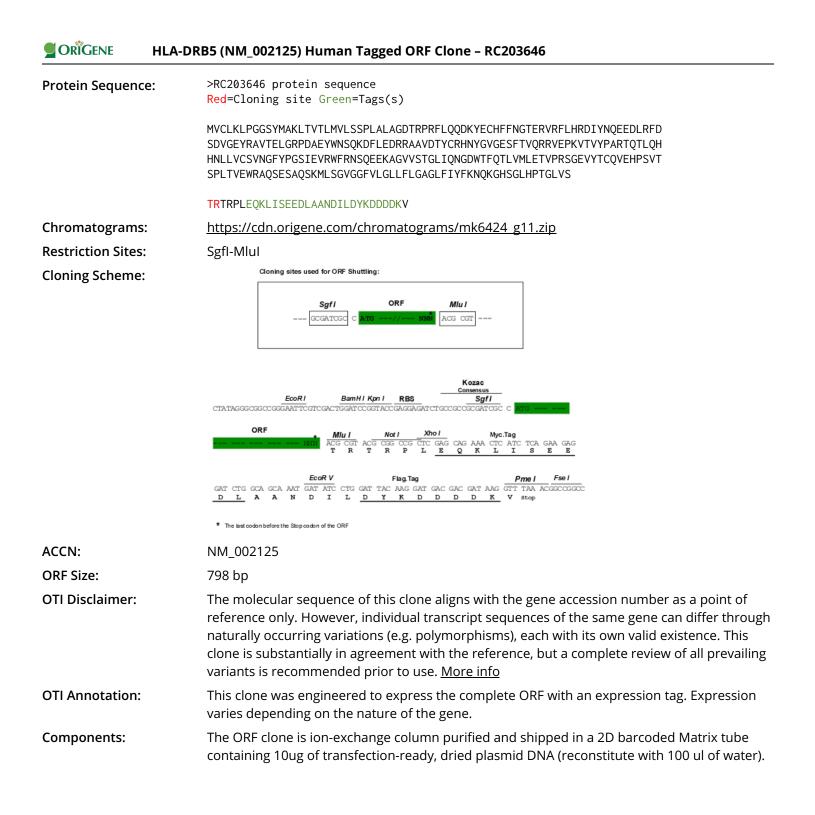
ATGGTGTCTGAAGCTCCCTGGAGGTTCCTACATGGCAAAGCTGACAGTGACACTGATGGTGCTGAGCT CCCCACTGGCTTTGGCTGGGGACACCCGACCACGTTTCTTGCAGCAGGATAAGTATGAGTGTCATTTCTT CAACGGGACGGAGCGGGTGCCGGTTCCTGCACAGAGACATCTATAACCAAGAGGAGGACTTGCGCTTCGAC AGCGACGTGGGGGAGTACCGGGCGGTGACGAGCTGGGGCGGCCTGACGCTGAGGACACGCAGA AGGACTTCCTGGAAGACAGGCGCCGCGGGGGACACCTACTGCAGACACAACTACGGGGTTGGTGAGAG CTTCACAGTGCAGCGGCGGCGCCGCGGTGGACACCTACTGCAAGAACAACTACGGGGTTGGTGAGAG CTCCCAGTGCAGCGGCGAGTTGAGCCTAAGGTGACTGTGTATCCTGCAAGGACCCAGACCCTGCAGCAC CACAACCTCCTGGTCTGCTCTGTGAATGGTTTCTATCCAGGCAGCATTGAAGTCAGGTGGTTCCGGAACA GCCAGGAAGAGAAGGCTGGGGTGGTGTCCACAGGCCTGATTCAGAATGGAGACCGAGCCTTCCAGACCCT GGTGATGCTGGAACAGTTCCTCGAAGTGGAGAGCTCTGAATCGCCAAGGGAGCACCCAAGCGTGACG AGCCCTCTCACAGTGGAATGGAGAGCACAGTCTGAATCTGCACAGAGCAGGAGCACCCAAGCGTGACG GCTTTGTGCTGGGCCTGCTCTTCCTTGGGGCCGGGCTATTCATCTACTTCAAGAATCAGAAAGGGCACCC TGGACTTCACCAACAGGACTCGTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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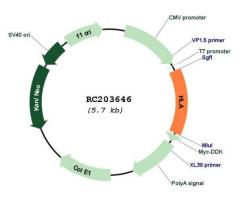
CRIGENE HLA-DRB5 (NM_002125) Human Tagged ORF Clone – RC203646

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 002125.4</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
MW:	30.1 kDa
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]

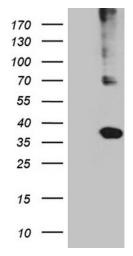
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Product images:

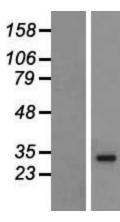


Circular map for RC203646



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HLA (Cat# RC203646, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HLA (Cat# [TA812174]). Positive lysates [LY419520] (100ug) and [LC419520] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY419520]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203646 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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