

Product datasheet for **SC113252**

HLA-DRA (NM_019111) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DRA (NM_019111) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DRA
Synonyms:	HLA-DRA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019111, the custom clone sequence may differ by one or more nucleotides

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ATGGCCATAAGTGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCAT
GGGCTATCAAAGAAGAACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTT
TATGTTTTGACTTTGATGGTGATGAGATTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTT
GAAGAATTTGGACGATTTGCCAGCTTTGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCA
ACCTGAAATCATGACAAAGCGCTCCAATACTCCGATACCAATGTACCTCCAGAGGTAACCTGTGCT
CACAAACAGCCCTGTGAACTGAGAGAGCCCAACGTCTCATCTGTTTCATAGACAAGTTCACCCACCA
GTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCACCACAGGAGTGCAGAGACAGTCTTCCTGC
CCAGGGAAGACCACCTTTCCGCAAGTTCCAATCTCCCTTCCTGCCCTCAACTGAGGACGTTTACGA
CTGCAGGGTGGAGCACTGGGGCTTGATGAGCCTCTTCTCAAGCACTGGGAGTTTGATGCTCCAAGCCCT
CTCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGTGGGCATCATTATTG
GGACCATCTTCATCATCAAGGGATTGCGCAAAGCAATGCAGCAGAACGCAGGGGGCCTCTGTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_019111 unedited GTTAGATTTGTATACGACTTACTATAGGCGGCCGCGACTTCGGCACGAGGCCTCGTGCCG AATTTCGGCACGAGGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGA AAATGGCCATAAGTGGAGTCCCTGTGCTAGGATTTTTCATCATAGCTGTGCTGATGAGCG CTCAGGAATCATGGGCTATCAAAGAAGAACATGTATCATCCAGGCCGAGTTCTATCTGA ATCCTGACCAATCAGGCCAGTTTATGTTTGACTTTGATGGTGATGAGATTTTCCATGTGG ATATGGCAAAGAAGGAGACGGTCTGGCGCTTGAAGAATTTGGACGATTTGCCAGCTTTG AGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGAAATCATGACAA AGCGCTCCAATACTCCGATACCAATGTACCTCCAGAGGTAAGTGTGCTCACGAACA GCCCTGTGGAAGTGAAGAGGCCAACGTCCTCATCTGTTTCATAGACAAGTTCACCCAC CAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTACCACAGGAGTGTACAGAGA CAGTCTTCTGCCAGGGAAGACCACCTTTTCCGCAAGTCCACTATCTCCCTTCTCTGC CCTCAACTGAGGACGTTTACGACTGCAGNTGGAGCACTGGGGCTTGGATGAGCCTTCTC TAAGCACTGGGAGTTTGTGCTCCAAGCCCTCTCCAGAGACTACAGAGAACGTGGNTGT GTGCCCTGGGCTGACTGGGGTCTGCTGGGCATCATTATGGGACCCATCTCATCATCA GGGGATTGCGCAAAGCATGCAGCAGACGAGGGGCCCTGTAGGACCATGAGTGGATAG GGTTTCTTAAAAAGATACTGGAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_019111 unedited CGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTTCCACCCAAAATCTTCAA ATAGTTTATTGTGTTTCAGAAAAATCACAGTTTGAGGAAACCTTAAACAATAAGTACACAA GAGATGCCCCATGGGCAATTCATAGCAGAGACAGACTCCTGTATGTTTTATTCCAGAGG CATTGCATGGTGATAATAAAATGATAGGAAATAGAGGAAATAGATACAGGAAAAGGCAA TAGACAGGGAAGCCAGCTAGATGTTAGAGTATGGAGCAATCGAGGAGGCATAACCACTCT TGGGGTAGCTATAGGGCTGGAAAATGCTGAAGTACTGCTTTCACTGAGGTCAAGGATT GTAATATTGCCAGCTTTGTAAGCCATTAAAGCAGAAGTTTCTTCACTGATCTTCTCTCT AAGAAACACCATCACCTCCATGTGCCTTACAGAGGCCCTTGCCTTCTGCTGCATTGCTT TTGCGCAATCCCTTGATGATGAAGATGGTCCCAATAATGATGCCACCAGACCCACAGTC AGGCCAGGGCACACACCAGTTCTCTGTAGTCTCTGGGAGAGGGCTTGGAGCATCAAC TCCCAGTGTGAGAAGAGGCTCATCCAAGCCCCAGTGTCCACCCTGCAGTCGTAACCG TCCTCAGTTGAGGGCAGGAAGGGGAGATAGTGGAACTTGGGAAAAGGTGGTCTTCCCTG GGCAGGAAGACTGTCTCTGACACTCCTGTGGTGACAGGTTTTCCATTTGAAAGCCACGTG ACATTGACCACTGGTGGNGTGAACCTGTCTATGAAACAGATGAGGACGTTGGGCTCTCT CAGTCCACAGGNCTGCTGTGAGACAGNTACCTCTGGAGTACATTGGTGGATCGAGTATA TTGGAGCGCTTGCATGATTCAGTTGGCTTGTCCCACTTATGTGCCAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_019111
Insert Size:	1340 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_019111.3 , NP_061984.2
RefSeq Size:	1267 bp
RefSeq ORF:	765 bp
Locus ID:	3122
UniProt ID:	P01903
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, Hematopoietic cell lineage, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis
Gene Summary:	HLA-DRA is one of the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha and a beta chain, both anchored in the membrane. This molecule is expressed on the surface of various antigen presenting cells such as B lymphocytes, dendritic cells, and monocytes/macrophages, and plays a central role in the immune system and response by presenting peptides derived from extracellular proteins, in particular, pathogen-derived peptides to T cells. The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. DRA does not have polymorphisms in the peptide binding part and acts as the sole alpha chain for DRB1, DRB3, DRB4 and DRB5. [provided by RefSeq, Aug 2020]