

Product datasheet for SC322003

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322003
 CCTCACTCCCGAGCTCTACTGACTCCCAAAGAGCGCCCAAGAAGAAAATGGCCATAAGT
 GGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGG
 GCTATCAAAGAAGAACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCA
 GGCGAGTTTATGTTTGACTTTGATGGTGTGAGATTTTCCATGTGGATATGGCAAAGAAG
 GAGACGGTCTGGCGGCTTGAAGAATTTGGACGATTTGCCAGCTTTGAGGCTCAAGGTGCA
 TTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAATAT
 ACTCCGATACCAATGTACCTCCAGAGGTAAGTGTGCTCACGAACAGCCCTGTGGAAGT
 AGAGAGCCCAACGTCCTCATCTGTTTCATCGACAAGTTCACCCACCAGTGGTCAATGTC
 ACGTGGCTTCGAAATGGAACCTGTACCACAGGAGTGTGAGAGACAGTCTTCCTGCC
 AGGGAAGACCACCTTTCCGCAAGTTCCACTATCTCCCCTTCCTGCCCTCAACTGAGGAC
 GTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGAG
 TTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTCCTGGGCCTG
 ACTGTGGGTCTGGTGGGCATCATTATTGGGACCATCTTCATCATCAAGGGAGTGGCAAA
 AGCAATGCAGCAGAACGCAGGGGGCCTCTGTAAGGCACATGGAGGTGATGGTGTTCCTTA
 GAGAGAAGATCACTGAAGAACTTCTGCTTTAATGACTTTACAAAGCTGGCAATATTACA
 ATCCTTGACCTCAGTAAAGCAGTCATCTTCAGCGTTTTCCAGCCCTATAGCCACCCCAA
 GTGTGGTTATGCCTCCTCGATTGCTCCGTAAGTCTAACATCTAGCTGGCTTCCTGTCTAT
 TGCTTTTCTGTATCTATTTTCTCTATTTCTATCATTTTATTATCACCATGCAATGC
 CTCTGGAATAAAACATACAGGAGTCTGTCTGCTATGGAATGCCCATGGGGCATCTCT
 TGTGTAATTTGTTAAGGTTTCTCAAAGTGTGATTTTTCTGAACACAATAAACTATT
 TTGATGATCTTGGGTGGAAA

Restriction Sites: Please inquire
ACCN: NM_019111



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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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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]