

## Product datasheet for **SC118845**

### HLA-DOA (NM\_002119) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DOA (NM_002119) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLA-DOA
Synonyms:	HLA-DNA; HLA-DZA; HLADZ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118845 sequence for NM_002119 edited (data generated by NextGen Sequencing)

```
ATGGCCCTCAGAGCAGGGCTGGTCTGGGGTTCCACACCCTGATGACCCTCTGAGCCCG
CAGGAGGCAGGGGCCACCAAGGCTGACCACATGGGCTCCTACGGACCCGCTTCTACCAG
TCTTACGGCGCCTCGGGCCAGTTCACCCATGAATTTGATGAGGAACAGCTGTTCTCTGTG
GACCTGAAGAAAAGCGAGGCCGTGTGGCGTCTGCCTGAGTTTGGTGACTTTGCCCGCTTT
GACCCGCAGGGTGGGCTGGCCGGCATCGCCGCAATCAAAGCCCATCTGGACATCCTGGTG
GAGCGCTCAACCCGAGCAGAGCCATCAACGTGCCTCCACGGGTGACCGTGCTCCCCAAG
TCTCGGGTGGAGCTGGGCCAGCCCAACATCCTCATCTGCATCGTGGACAACATCTCCCC
CCTGTGATCAATATCACCTGGCTACGCAACGGCCAAACTGCACTGAGGGAGTGGCCAG
ACCAGCTTCTATCCCAGCCTGACCATTTGTTCCGCAAGTCCACTACCTGCCCTTCGTG
CCCTCAGCCGAGGACGTCTATGACTGCCAGGTGGAGCACTGGGGCCTGGATGCGCCACTC
CTCAGGCATTGGGAGCTCCAGGTGCCTATTCCACCACCAGATGCCATGGAGACCCCTGGTC
TGTGCCCTGGGCCTGGCCATCGGCCTGGTGGGCTTCTCGTGGGCACCGTCTCATCATC
ATGGGCACATATGTGTCCAGTGTCCCCAGGTAA
```

Clone variation with respect to NM\_002119.3  
252 c=>t;444 g=>a



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002119 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGATTAAGCACCAGA GTGTAATGGCCCTCAGAGCAGGGCTGGTCTGGGGTTCCACACCTGATGACCCTCCTGA GCCCAGGAGGCAGGGGCCACCAAGGCTGACCACATGGGCTCTACGGACCCGCCTTCT ACCAGTCTTACGGCGCCTCGGGCCAGTTCACCCATGAATTTGATGAGGAACAGCTGTTCT CTGTGGACCTGAAGAAAAGCGAGGCCGTGTGGCGTCTGCCTGAGTTTGGTGACTTTGCC GCTTTGACCCGACAGGGTGGGCTGGCCGCATCGCCGCAATCAAAGCCCATCTGGACATCC TGGTGGAGCGCTCCAACCGCAGCAGAGCCATCAACGTGCCTCCACGGGTGACCGTCTCC CCAAGTCTCGGGTGGAGCTGGGCGAGCCCAACATCCTCATCTGCATCGTGACAACATCT TCCCCCTGTGATCAATATCACCTGGCTACGCAACGGCCAAACTGCACTGAGGGAGTGG CCCAGACCAGTTCTATTCCCAGCTGACCATTGTTCCGCAAGTTCCACTACCTGCCCT TCGTGCCCTCAGCCGAGGACGTCTATGACTGCCAGGTGGAGCACTGGGGCCTGGATGCGC CACTCCTCAGGCATTGGGAGCTCCAGGTGCCTATTCCACCACCAGATGCCATGGAGACCC TGGTCTGTGCCCTGGGCCTGGGCCATCGCCTGGTGGGCTTCTCTGTGGGACCGTCTCA TCATCATGGGCACATATGTGTCCAGTGTCCCCAGTATGATCCTTCTGAGAGAAATGACT GTAGGAGACACCCCTGCAGATCTCATGGGNTTGTGACAGCCCTGCGTGCTCAGTGCCCTT TAGTGATNCCGCTGTGCTGACTTGNANTGGGATCACATN</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002119 unedited</p> <pre>GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTAGTCAAAAAACACAATT TTAATGACTTTATCAAGCCTTAGGACAGAGATGAGAGAAACACCTTTCCAATGATGCATC AAGTTAACGTCTAAGCAAAGATCAGCAGAGATCAGAGATTGTTGGGTACACACGTATCT TGTGATGTCTTCTGAGAACCACTTATTCCTCTTCTCTGAGAAGAACTTGACCCCTCGC CCCGGGGCTGAGTGCTTGGCAGCCACATTTGTGTTGAGATCTTGATTCTGCTCTAACTA CACAGGGCTGGGATGGACACCTGCTCCAAGTTGGCCAGTCATTTATTTTTCCAGTAATT TAAAGCTGTGACTAGGAGACACAGCCTCTGTGGGTTGTGAGGGTTGAGATGATATAAACT CAGGAGCTGTCCGGTGGACATGTTCACTGAGAAGGACAGTCAGTCCACAGAGAGAGAACA CCGCTAACATGCAGGGGGGTCTAGAGAACACAGACCATGTGGATCCGAGAGTGTGGAGG GGCAGCTCTAGCTTCTCTGGGCTTTTCGGATCCGAGTTCTGTTCTGGGAGGCCTGGCTA AAATCTACCCCTTGGGCCTGCACTCCTCCCCATTGGCTATATTGCAAATATCCTATACT TTGCATGTGATCACACAAAGAGGGTTTCTGTTACTGCCCAAAAAGTTTGGCCTGAGA TGATATTCTCCACTTCCATCAGGCTCCTCTTGCTCATTGATTTACCTTATTCCCTCTC AGAAGGCCAACTGAGCCCATATACTTTGTTTTTTTTTTTTTCCAGGACAACCTGCTTAAGT NTAAACCTTTATTTGCCTTTATTACTGCACCTGATTGGCTGAGCCCTACCGACCACGGTT TTAAAAACCTTTCTTACTCACTTCAACTGGGATCCCTTTCTGACCCCGTGGACTGTTTCG TACTGGGTCAGTACAACAAGCAAGCCCGATGGGCTAAG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002119
<b>Insert Size:</b>	3520 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002119.3</a> , <a href="#">NP_002110.1</a>
<b>RefSeq Size:</b>	3485 bp
<b>RefSeq ORF:</b>	753 bp
<b>Locus ID:</b>	3111
<b>UniProt ID:</b>	<a href="#">P06340</a>
<b>Cytogenetics:</b>	6p21.32
<b>Domains:</b>	MHC_II_alpha, ig, IGc1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis
<b>Gene Summary:</b>	HLA-DOA belongs to the HLA class II alpha chain paralogues. HLA-DOA forms a heterodimer with HLA-DOB. The heterodimer, HLA-DO, is found in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. In comparison with classical HLA class II molecules, this gene exhibits very little sequence variation, especially at the protein level. [provided by RefSeq, Jul 2008]