

Product datasheet for **SC302355**

DHLAG (CD74) (NM_001025159) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHLAG (CD74) (NM_001025159) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHLAG
Synonyms:	DHLAG; HLADG; Ia-GAMMA; II; p33
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001025159 edited ATGCACAGGAGGAGAAGCAGGAGCTGTCGGGAAGATCAGAAGCCAGTCATGGATGACCAG CGCGACCTTATCTCCAACAATGAGCAACTGCCCATGCTGGGCCGGCGCCCTGGGGCCCCG GAGAGCAAGTGCAGCCGCGGAGCCCTGTACACAGGCTTTCCATCCTGGTGACTCTGCTC CTCGCTGGCCAGGCCACCCGCTACTTCTGTACCAGCAGCAGGGCCGGCTGGACAAA CTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACCTGCGCATGAAGCTTCCAAGCCT CCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGCGCTGCCCATG GGAGCCCTGCCAGGGGCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGAC CATGTGATGCACCTGCTCCAGAATGCTGACCCCTGAAGGTGTACCCGCACTGAAGGGG AGCTTCCCGGAGAACCTGAGACACCTTAAGAACCATGGAGACCATAGACTGGAAGGTC TTTGAGAGCTGGATGCACCATTGGCTCCTGTTTAAAATGAGCAGGCACTCCTTGGAGCAA AAGCCCACTGACGCTCCACCGAAAGTACTGACCAAGTGCCAGGAAGAGGTGAGCCACATC CCTGCTGTCCACCCGGGTTCACTCAGGCCAAAGTGCAGCAGAAACGGCAACTATCTGCCA CTCCAGTGCTATGGGAGCATCGGCTACTGCTGGTGTGTCTTCCCAACGGCACGGAGGTC CCCAACACCAGAAGCCGCGGGCACCATAACTGCAGTGAGTCACTGGAAGTGGAGGACCCG TCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCAGTCCCCATGTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001025159 unedited
 NNAAGGCGNNNNNGGNGGGGTCCAGCATTGTGNATACGACTCACTATAGGCGGCCGCGA
 ATTCGCACGAGGCAGGGTCCCAGAAGCACAGGAGGAGAAGCAGGAGCTGTGCGGAAGATC
 AGAAGCCAGTCATGGATGACCAGCGGACCTTATCTCCAACAATGAGCAACTGCCCATGC
 TGGGCCGGCCCTGGGGCCCCGGAGAGCAAGTGCAGCCGGGAGCCCTGTACACAGGCT
 TTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCCTACTTCTGTACC
 AGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACC
 TGGCATGAAGCTTCCCAAGCCTCCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGC
 TGCTGATGCAGGCGCTGCCCATGGGAGCCCTGCCCCAGGGGCCATGCAGAATGCCACCA
 AGTATGGCAACATGACAGAGGACCATGTGATGCACCTGCTCCAGAATGCTGACCCCTGA
 AGGTGTACCCGCCACTGAAGGGGAGCTTCCCGGAGAACCTGAGACACCTTAAGAACACCA
 TGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCATTGGCTCCTGTTTGAAA
 TGAGCAGGCACTCCTTGGAGCAAAGCCACTGACGCTCCACGAAAGTACTGACCAAGT
 GCCAGGAAGAGGTCAGCCACATCCCTGCTGTCCACCCGGTTNCATTANNGCCAAGTGCG
 ACGAGAACGGCAACTATCTGCCACTCCAGTGCTATGGGAGCATCNGCTACTGCTGGTGTG
 TCTTCCCAACGGCACGGNAGTCCCAACAACAGAAGCCGCGG

3' Read Nucleotide Sequence:

>Forward primer walk for NM_001025159 unedited
 AAGGGTTTACTTCCCGGTATAACCGNATAACCTTAGAAACACCATGGCAGACATAGACTG
 GAAGGTCTTTGAGAGCTGGATGCACCATTGGCTCCTGTTTGAAATGAGCAGGCACTCCTT
 GGAGCAAAGCCCACTGACGCTCCACCGAAAGTACTGACCAAGTCCAGGAAGAGGTCAG
 CCACATCCCTGCTGTCCACCCGGTTCATTGAGCCCAAGTGCAGCAGAGAACGGCAACTA
 TCTGCCACTCCAGTGCTATGGGAGCATCGGCTACTGCTGGTGTGTCTTCCCAACGGCAC
 GGAGGTCCCAACACCAGAAGCCGCGGGCACCATAACTGCAGTGAGTCACTGGAAGTGA
 GGACCCGTCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCAGTCCCATGTGAGA
 GCAGCAGAGGCGGTCTTCAACATCCTGCCAGCCCCACACAGCTACAGCTTTCTTGCTCCC
 TTCAGCCCCAGCCCTCCCCATCTCCACCCTGTACCTCATCCCATGAGACCTTGGTG
 CCTGGCTCTTTTCGTCACCTTGGACAAGACAAACCAAGTCGGAACAGCAGATAACAATGC
 AGCAAGGCCCTGCTGCCAATCTCCATCTGTCAACAGGGGCGTGAGGTCCCAGGAAGTGG
 CAAAAAGCTAGACAGATCCCGTTCCTGACATCACAGCAGCCTCCAACACAAGGCTCCAA
 GACCTAGGCTCATGGACGAGATGGGAAGGCACAGGGAGAAGGGATACCCCTACACCCAGA
 CCCAGGCTGGACATGCTGACTGTTCTCTCCCCTCCAGCCTTTGGCCTTGGCTTTTCTAG
 CCTATTTACCTGCAGCTGAGCCACTCTTCTCCCTTTCCCAGCATCACTCCCAAGGAAG
 ACCAATGGTNTCCACCTT

Restriction Sites:

Please inquire

ACCN:

NM_001025159

Insert Size:

1500 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001025159.1, NP_001020330.1</u>
RefSeq Size:	1519 bp
RefSeq ORF:	891 bp
Locus ID:	972
UniProt ID:	<u>P04233</u>
Cytogenetics:	5q33.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Antigen processing and presentation
Gene Summary:	<p>The protein encoded by this gene associates with class II major histocompatibility complex (MHC) and is an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>