

## Product datasheet for **RG212964**

### DHLAG (CD74) (NM\_001025159) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHLAG (CD74) (NM_001025159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHLAG
Synonyms:	DHLAG; HLADG; Ia-GAMMA; II; p33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212964 representing NM_001025159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCACAGGAGGAGAAGCAGGAGCTGTCGGGAAGATCAGAAGCCAGTCATGGATGACCAGCGGACCTTA  
TCTCCAACAATGAGCAACTGCCCATGCTGGGCCGGCCCTGGGGCCCCGGAGAGCAAGTGCAGCCGCGG  
AGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCTACTTC  
CTGTACCAGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCAGAACCTGCAGCTGGAGAACCTGC  
GCATGAAGCTTCCAAGCCTCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGC  
GCTGCCCATGGGAGCCCTGCCCCAGGGGCCATGCAGAAATGCCACCAAGTATGGCAACATGACAGAGGAC  
CATGTGATGCACCTGCTCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGG  
AGAACCTGAGACACCTTAAGAACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCA  
TTGGCTCCTGTTTGAATGAGCAGGCACTCCTTGGAGCAAAGGCCACTGACGCTCCACCGAAAGTACTG  
ACCAAGTGCCAGGAAGAGGTGAGCCACATCCCTGCTGTCCACCCGGGTTTCATTGAGGCCAAGTGCAGC  
AGAACGGCAACTATCTGCCACTCCAGTGCTATGGGAGCATCGGCTACTGCTGGTGTGTCTCCCCAACGG  
CACGGAGGTCCCCAACACCAGAAGCCCGGGCACCATAACTGCAGTGAGTCACTGGAAGTGGAGGACCCG  
TCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCAGTCCCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212964 representing NM\_001025159  
 Red=Cloning site Green=Tags(s)

MHRRRSRSCREDQKPVMDQDRDLISNNEQLPMLGRRPGAPESKCSRGALYTGFSILVTL LLAGQATTAYF  
 LYQQQGRDLKLVTSQNLQLENLRMCLKPKPKPVSKMRMATPLLQALPMGALPQGP MQNATKYGNMTE  
 HVMHLLQNADPLKVYPPLKGSFPENLRHLKNTMETIDWKVFESWMHHWLLFEMSRHSLEQKPTDAPPKVL  
 TKCQEEVSHIPAVHPGSRPKCDENGNLPLQCYGSIGYCWCVFPNGTEVPNTRS RGHHCSESLELEDP  
 SSGLGVTKQDLGPVPM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001025159

**ORF Size:** 888 bp

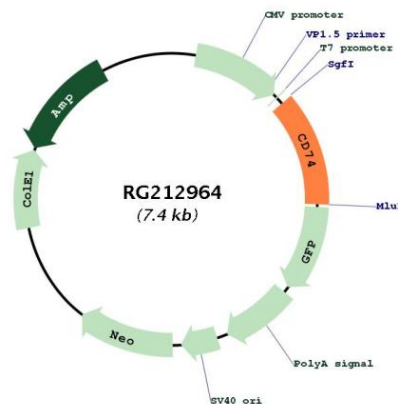
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_001025159.2</a>
<b>RefSeq Size:</b>	1519 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	972
<b>UniProt ID:</b>	<a href="#">P04233</a>
<b>Cytogenetics:</b>	5q33.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Antigen processing and presentation
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RG212964