

## Product datasheet for **RC212964**

### 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:	Myc-DDK
Symbol:	DHLAG
Synonyms:	DHLAG; HLADG; Ia-GAMMA; II; p33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212964 representing NM_001025159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCACAGGAGGAGAAGCAGGAGCTGTCGGGAAGATCAGAAGCCAGTCATGGATGACCAGCGGACCTTA  
TCTCCAACAATGAGCAACTGCCCATGCTGGGCCGGCCCTGGGGCCCCGGAGAGCAAGTGCAGCCGCGG  
AGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCTACTTC  
CTGTACCAGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCAGAACCTGCAGCTGGAGAACCTGC  
GCATGAAGCTTCCAAGCCTCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGC  
GCTGCCCATGGGAGCCCTGCCCCAGGGGCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGAC  
CATGTGATGCACCTGCTCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGG  
AGAACCTGAGACACCTTAAGAACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCA  
TTGGCTCCTGTTTGAATGAGCAGGCACTCCTTGGAGCAAAGCCCACTGACGCTCCACCAGAAAGTACTG  
ACCAAGTGCCAGGAAGAGGTGAGCCACATCCCTGCTGTCCACCCGGGTTTCATTGAGGCCAAGTGCAGC  
AGAACGGCAACTATCTGCCACTCCAGTGCTATGGGAGCATCGGCTACTGCTGGTGTGTCTCCCCAACGG  
CACGGAGGTCCCCAACACCAGAAGCCCGGGCACCATAACTGCAGTGAGTCACTGGAAGTGGAGGACCCG  
TCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCAGTCCCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Reconstitution Method:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001025159.2](#)

**RefSeq Size:** 1519 bp

**RefSeq ORF:** 891 bp

**Locus ID:** 972

**UniProt ID:** [P04233](#)

**Cytogenetics:** 5q33.1

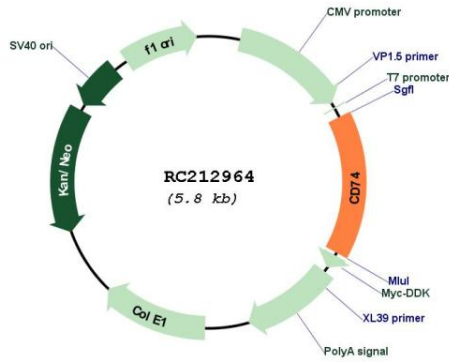
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Antigen processing and presentation

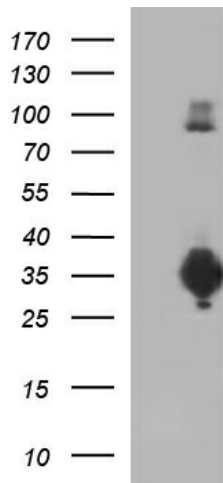
**MW:** 33.3 kDa

**Gene Summary:** 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]

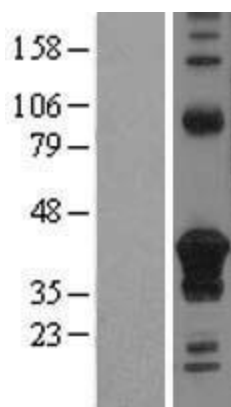
Product images:



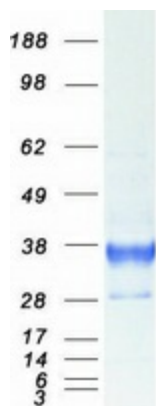
Circular map for RC212964



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD74 (Cat# RC212964, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD74(Cat# [TA507339]). Positive lysates [LY422595] (100ug) and [LC422595] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY422595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212964 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD74 protein (Cat# [TP312964]). The protein was produced from HEK293T cells transfected with CD74 cDNA clone (Cat# RC212964) using MegaTran 2.0 (Cat# [TT210002]).