

## Product datasheet for MR225627

### Cd74 (NM\_010545) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd74 (NM\_010545) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd74  
**Synonyms:** CLIP; DHLAG; HLADG; Ia-GAMMA; li  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225627 representing NM\_010545  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGATGACCAACGCGACCTCATCTCTAACCATGAACAGTTGCCCATCTGGCAACCGCCCTAGAGAGC  
 CAGAAAGGTGCAGCCGTGGAGCTCTGTACACCGGTGTCTCTGTCTGGTGGCTCTGCTCTTGGCTGGCA  
 GGCCACCACTGCTTACTTCTGTACCAGCAACAGGCGCCCTAGACAAGCTGACCATCACCTCCCAGAAC  
 CTGCAACTGGAGAGCCTTCGCATGAAGCTTCCGAAATCTGCCAACCTGTGAGCCAGATGCGGATGGCTA  
 CTCCTTGTCTGATGCGTCCAATGCCATGGATAACATGCTCCTTGGCCCTGTGAAGAAGTTACCAAGTA  
 CGGCAACATGACCCAGGACCATGTGATGCATCTGCTCACGAGGTCTGGACCCCTGGAGTACCCGCAGCTG  
 AAGGGGACCTTCCCAGAGAATCTGAAGCATCTTAAGAACTCCATGGATGGCGTGAAGTGAAGATCTTCG  
 AGAGCTGGATGAAGCAGTGGCTCTTGTGTTGAGATGAGCAAGAAGCTCCCTGGAGGAGAAGAAGCCACCGA  
 GGCTCCACCTAAAGAGCCACTGGACATGGAAGACCTATCTTCTGGCCCTGGGAGTGACCAGGCAGGAAGT  
 GGTCAAGTCACCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225627 representing NM\_010545  
Red=Cloning site Green=Tags(s)

MDDQRDLISNHEQLPILGNRPREPERCSR GALYTGVSVLVALLLAGQATTAYFLYQQGRLDKLTITSQN  
 LQLESLRMKLPKSAKPV SQMRMATPLLMRPMSMDNMLLGPVKNVTKYGNMTQDHVMHLLTRSGPLEYPQL  
 KGTFPENLKH LKNSMDGVNWKIFESWMKQWLLFEMSKNSLEEKKPTAPPKEPLDMEDLSSGLGVTRQEL  
 GQVTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1627\\_c09.zip](https://cdn.origene.com/chromatograms/ja1627_c09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010545

**ORF Size:** 645 bp

**OTI Disclaimer:** 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.

**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:**

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\\_010545.3](#), [NP\\_034675.1](#)

**RefSeq Size:** 1239 bp

**RefSeq ORF:** 648 bp

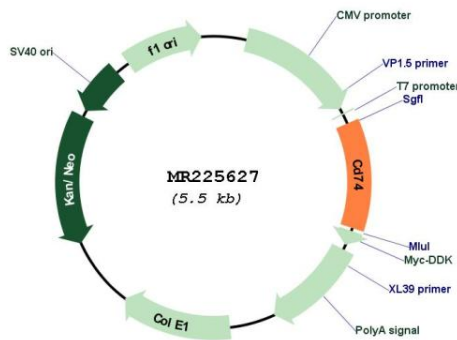
**Locus ID:** 16149

**Cytogenetics:** 18 34.41 cM

**MW:** 24.9 kDa

**Gene Summary:** Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to compartments where peptide loading of class II takes place. Enhance also the stimulation of T-cell responses through interaction with CD44.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225627