

Product datasheet for **MG225630**

Cd74 (NM_001042605) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd74 (NM_001042605) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cd74
Synonyms: CLIP; DHLAG; HLADG; Ia-GAMMA; li
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225630 representing NM_001042605
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGACCAACGCGACCTCATCTCTAACCATGAACAGTTGCCCATACTGGGCAACCGCCCTAGAGAGC
 CAGAAAGGTGCAGCCGTGGAGCTCTGTACACCGGTGTCTCTGTCTGGTGGCTCTGCTCTTGGCTGGGCA
 GGCCACCACTGCTTACTTCTGTACCAGCAACAGGGCCGCTAGATAAGCTGACCATCACCTCCCAGAAC
 CTGCAACTGGAGACCTTCGCATGAAGCTTCCGAAATCTGCCAAACCTGTGAGCCAGATGCGGATGGCTA
 CTCCTTGCTGATGCGTCCAATGCCATGGATAACATGCTCCTTGGCCCTGTGAAGAAGTTACCAAGTA
 CGGCAACATGACCCAGGACCATGTGATGCATCTGCTCACGAGGTCTGGACCCCTGGAGTACCCGAGCTG
 AAGGGGACCTTCCAGAGAATCTGAAGCATCTTAAGAATCCATGGATGGCGTGAAGTGAAGATCTTCG
 AGAGCTGGATGAAGCAGTGGCTCTTGTGGAGATGAGCAAGAAGTCCCTGGAGGAGAAGAAGCCACCGA
 GGCTCCACCTAAAGTACTGACCAAGTGCCAGGAAGAAGTACGCCACATCCCTGCCGTCTACCCGGGTGCG
 TTCCGTCCCAAGTGGCAGGACGGAACGTAATTTGCCACTCCAGTGCCACGGGAGCACTGGCTACTGCT
 GGTGTGTGTTCCCAACGGCACTGAGGTTCCCTCACACCAAGAGCCGCGGGGCCATAACTGCAGTGAGCC
 ACTGGACATGGAAGACCTATCTTCTGGCCTGGGAGTGACCAGGCAGGAAGTGGTCAAGTCAACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225630 representing NM_001042605
 Red=Cloning site Green=Tags(s)

MDDQRDLISNHEQLPILGNRPREPERCSR GALYTGVSVLVALLLAGQATTAYFLYQQQGRLDKLTITSQN
 LQLESLRMKLPKSAKPVSQMRMATPLLMRPMSMDNMLLGPVKNVTKYGNMTQDHVMHLLTRSGPLEYPQL
 KGTFPENLKHLLKNSMDGVNWKIFESWMKQWLLFEMSKNSLEEKKPTAPPKVLTKCQEEVSHIPAVYPGA
 FRPKCDENGNLPLQCHGSTGYCWCVFPNGTEVPHTKSRGRHNCSEPLDMEDLSSGLGVTRQELGQVTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042605

ORF Size: 837 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_001042605.1](#), [NP_001036070.1](#)

RefSeq Size: 1431 bp

RefSeq ORF: 840 bp

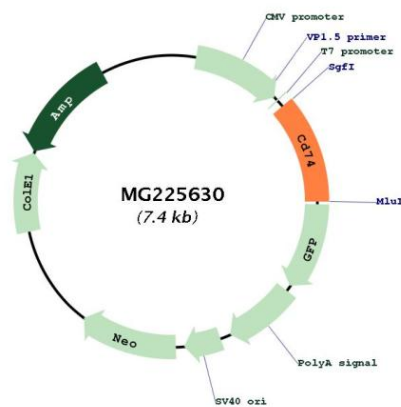
Locus ID: 16149

UniProt ID: [P04441](#)

Cytogenetics: 18 34.41 cM

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 MG225630