

Product datasheet for **RN205378**

Cd74 (NM_013069) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd74 (NM_013069) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cd74
Synonyms:	INVG34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205378 representing NM_013069 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACCAGCGGACCTCATCTCTAACCATGAGCAGCTGCCATCCTGGGCCAGCGTGCTAGAGCCC
CAGAAAGCAATTGCAACCGTGGAGTCTGTACACCAGTGTCTCTGTCTGGTGGCTCTGCTCTGGCTGG
GCAGGCCACCACTGCTTACTTCTGTACCAGCAGCAGGGCCGCCTGGACAAGCTGACCGTCACCTCCAG
AACCTGCAACTGGAGAACCTTCGCATGAAGCTCCGAAATCTGCCAAACCTGTGAGCCCGATGCGCATGG
CTACTCCCTTGCTGATGCGCCACTGTCCATGGATAACATGCTCCAAGCGCCGTGAAGAATGTTACCAA
GTATGGCAACATGACCCAGGACCAGTGATGCACCTGTTACGAAGTCTGGACCCGTGAACCTACCCACAG
CTGAAGGGGAGCTTCCCGGAGAATCTGAAGCACCTTAAGAATCTATGAATGGTCTGGACTGGAAGGTCT
TTGAGAGCTGGATGAAACAGTGGCTGTTGTTTGAATGAGCAAGAAGTCCCTGGAGGAGAAGCAGCCAC
CCAGACTCCACCTAAAGAGCCACTGGACATGGAAGACCCATCTTCTGGCCTGGGAGTGACCAAGCAGGAT
ATGGGCCAAATGTTCTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja1732_e10.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_013069
Insert Size:	651 bp



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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 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](#)

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_013069.2](#), [NP_037201.1](#)

RefSeq Size: 1220 bp

RefSeq ORF: 651 bp

Locus ID: 25599

UniProt ID: [P10247](#)

Cytogenetics: 18q12.1

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]