

Product datasheet for **RR205378**

Cd74 (NM_013069) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd74 (NM_013069) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cd74
Synonyms: INVG34
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205378 representing NM_013069
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACCAGCGGACCTCATCTCTAACCATGAGCAGCTGCCATCCTGGCCAGCGTGCTAGAGCCC
CAGAAAGCAATTGCAACCGTGGAGTCTGTACACCAAGTGTCTGTCTGGTGGCTCTGCTCTTGCTGG
GCAGGCCACCACTGCTTACTTCCGTACCAGCAGCAGGGCCGCCCTGGACAAGCTGACCGTCACTCCCAG
AACCTGCAACTGGAGAACCTTCGCATGAAGCTCCGAAATCTGCCAAACCTGTGAGCCCGATGCGCATGG
CTACTCCCTTGCTGATGCGCCCACTGTCCATGGATAACATGCTCCAAGCGCCCGTGAAGAATGTTACCAA
GTATGGCAACATGACCCAGGACCACGTGATGCACCTGCTTACGAAGTCTGGACCCGTGAACCTACCCACAG
CTGAAGGGGAGCTTCCCGGAGAACTGAAGCACCTTAAGAACTCTATGAATGGTCTGGACTGGAAGGTCT
TTGAGAGCTGGATGAAACAGTGGCTGTTGTTTGAATGAGCAAGAAGCTCCCTGGAGGAGAAGCAGCCAC
CCAGACTCCACCTAAAGAGCCACTGGACATGGAAGACCCATCTTCTGGCCTGGGAGTGACCAAGCAGGAT
ATGGGCCAAATGTTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR205378 representing NM_013069
 Red=Cloning site Green=Tags(s)

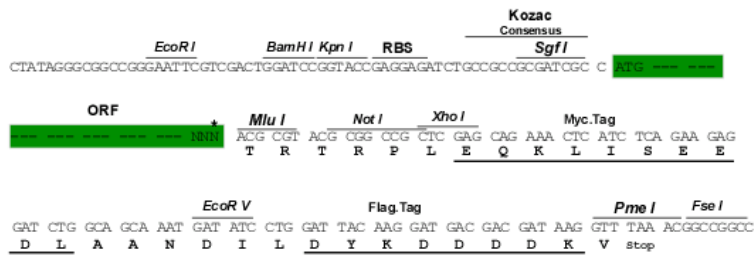
MDDQRDLISNHEQLPILGQRARAPESNCNRGVL YTSVSVLVALLLAGQATTAYFLYQQQGRDLKLTVTSQ
 NLQLENLRMKLPKSAKPVSPMRMATPLLMRPLSMDNMLQAPVKNVTKYGNMTQDHVMHLLTKSGPVNYPQ
 LKGSFPENLKHLLKNSMNGLDWKVFESWMKQWLLFEMSKNSLEEKQPTQTTPPKEPLDMEDPSSGLGVTKQD
 MGQMFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

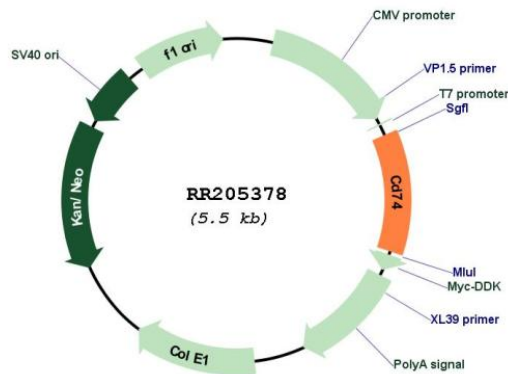
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_013069

ORF Size: 648 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_013069.2, NP_037201.1</p>
RefSeq Size:	<p>1220 bp</p>
RefSeq ORF:	<p>651 bp</p>
Locus ID:	<p>25599</p>
UniProt ID:	<p>P10247</p>
Cytogenetics:	<p>18q12.1</p>
MW:	<p>24.5 kDa</p>
Gene Summary:	<p>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]</p>