

Product datasheet for **RC204056**

CD99 (NM_002414) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD99 (NM_002414) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD99
Synonyms: HBA71; MIC2; MIC2X; MIC2Y; MSK5X
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204056 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCGCGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCCGCCCCCGGATG
 GTGTTTCGATTTATCCGATGCCCTTCTGACAATGAAAACAAGAAACCCACTGCAATCCCCAAGAAACC
 CAGTGTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAATGACGACCCACGACCACCG
 AACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGCTTTTCAGATGCTG
 ACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTATGGTGGAGGCAGCCACAGGAAAGA
 AGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCGGGATTGTGGGGGCTGTCGTGGTCCGGTGGCTGGA
 GCCATCTCTAGCTTCATTGCTTACCAGAAAAAGACTATGCTTCAAAGAAAATGCAGAACAAGGGGAGG
 TGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204056 protein sequence
 Red=Cloning site Green=Tags(s)

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPP
 NPPKPMNPNNHPSSSGSFSDADLADGVSGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAG
 AISSFIAYQKKKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

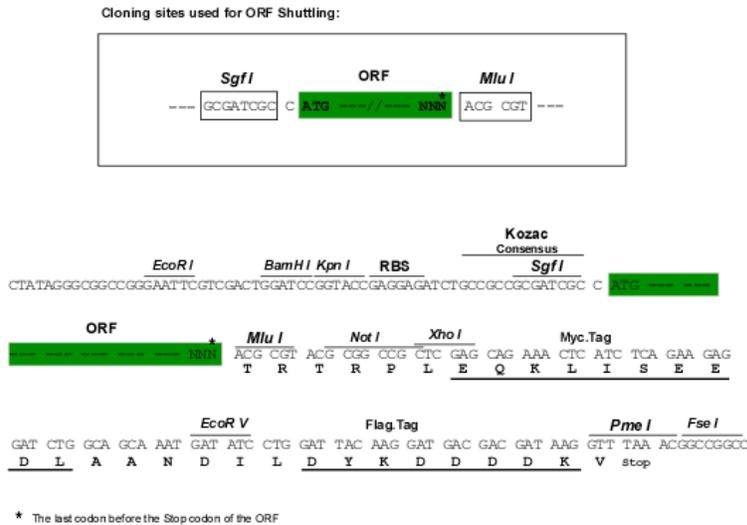
Chromatograms: https://cdn.origene.com/chromatograms/mk6058_c06.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002414

ORF Size: 555 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.

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

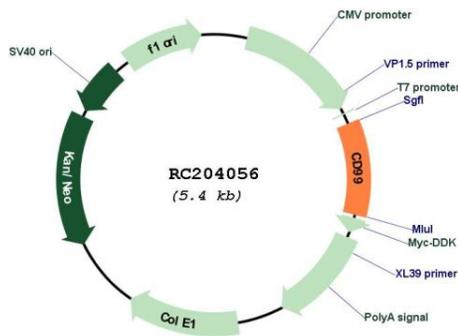
RefSeq: [NM_002414.5](#)

RefSeq Size: 1255 bp

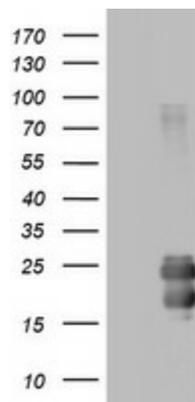
RefSeq ORF: 558 bp

Locus ID: 4267
UniProt ID: [P14209](#)
Cytogenetics: X;Y
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration
MW: 18.8 kDa
Gene Summary: The protein encoded by this gene is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. There is a related pseudogene located immediately adjacent to this locus. [provided by RefSeq, Mar 2016]

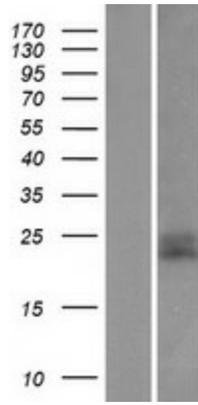
Product images:



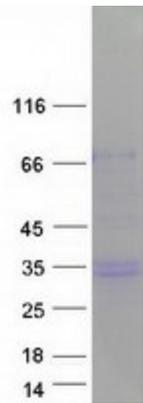
Circular map for RC204056



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD99 (Cat# RC204056, 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-CD99 (Cat# [TA800824]). Positive lysates [LY400863] (100ug) and [LC400863] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400863]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204056 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD99 protein (Cat# [TP304056]). The protein was produced from HEK293T cells transfected with CD99 cDNA clone (Cat# RC204056) using MegaTran 2.0 (Cat# [TT210002]).