

Product datasheet for **RG204056**

CD99 (NM_002414) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD99 (NM_002414) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD99
Synonyms: HBA71; MIC2; MIC2X; MIC2Y; MSK5X
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204056 representing NM_002414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCGCCGCCCGGATG
 GTGTTTCGATTTATCCGATGCCCTTCTGACAATGAAAACAAGAAACCCACTGCAATCCCCAAGAAACC
 CAGTGTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAATGACGACCCACGACCACCG
 AACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGCTTTTCAGATGCTG
 ACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGTGGTGGAGGCAGCCACAGGAAAGA
 AGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCGGGATTGTGGGGGCTGTCGTGGTCCCGTGGCTGGA
 GCCATCTCTAGCTTCATTGCTTACCAGAAAAAGACTATGCTTCAAAGAAAATGCAGAACAAGGGGAGG
 TGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204056 representing NM_002414
 Red=Cloning site Green=Tags(s)

MARGAALALLLFGLLGVLVAAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPP
 NPPKMPNPNNHPSSSGSFSADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAG
 AISSFIAYQKKLCKENAEQGEVDMESHNRNANAEPVQRTLLEK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

RefSeq: [NM_002414.5](#)

RefSeq Size: 1255 bp

RefSeq ORF: 558 bp

Locus ID: 4267

UniProt ID: [P14209](#)

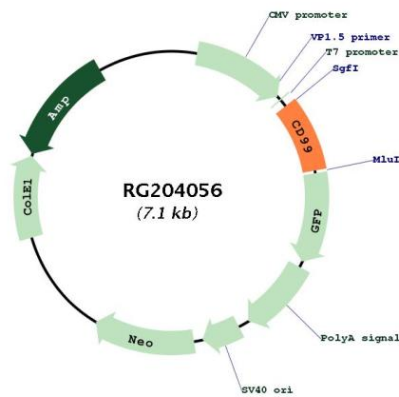
Cytogenetics: X;Y

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

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 RG204056