

Product datasheet for **RC236174**

CD99 (NM_001277710) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD99 (NM_001277710) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD99
Synonyms: HBA71; MIC2; MIC2X; MIC2Y; MSK5X
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236174 representing NM_001277710
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCGCCGCCCGGATG
GTGGTTTCGATTTATCCGATGCCCTTCCTGACAATGAAAAACAAGAAACCCACTGCAATCCCCAAGAAACC
CAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAATGACGACCCACGACCACCG
AACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCTAGTTCCTCCGGTAGCTTTTCAGATGCTG
ACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCACAGGAAAGA
AGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTGCTGGTTCGCCGTGGCTGGA
GCCATCTCTAGCTTCAATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236174 representing NM_001277710
Red=Cloning site Green=Tags(s)

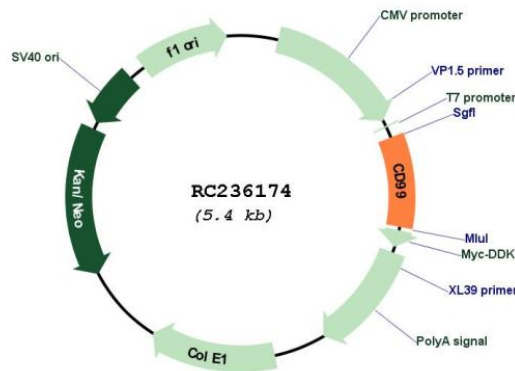
MARGAALALLLFGLLGVLAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPP
NPPKMPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAG
AISSFIAYQKKKLCFKENDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001277710

ORF Size: 480 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:	<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:	<u>NM_001277710.1, NP_001264639.1</u>
RefSeq Size:	1270 bp
RefSeq ORF:	483 bp
Locus ID:	4267
Cytogenetics:	X;Y
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration
MW:	16.5 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]