

## Product datasheet for **RC225164**

### CD99 (NM\_001122898) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD99 (NM\_001122898) 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:** >RC225164 representing NM\_001122898  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGGGGCTGCGCTGGCGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCGCCGCCCGGATG  
 GTGGTTTCGATTTATCCGATGCCCTTCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGA  
 AAATGACGACCCACGACCACCGAACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCTAGTTCC  
 TCCGGTAGCTTTTCAGATGCTGACCTTGGCGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGCGAGTATG  
 GTGGAGGCAGCCACAGGAAAGAAGGGGAAGAGGCCGACGCCCCAGCGTATCCCGGGATTGTGGGGC  
 TGTCGTGGTCGCCGTGGCTGGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAA  
 GAAATGCAGAACAAAGGGGAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTCA  
 GACTCTTTAGAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225164 representing NM\_001122898  
 Red=Cloning site Green=Tags(s)

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPGDDFDLGDVVDGENDDPRPPNPPKMPNPNHPSS  
 SGFSFDADLADGVSGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVAVAGAISSFIAVQKKLCKF  
 ENAEQGEVDMESHNRNANAEPVQRTLLEK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1451\\_f10.zip](https://cdn.origene.com/chromatograms/ja1451_f10.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001122898

ORF Size: 507 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\\_001122898.3](#)

RefSeq ORF: 510 bp

Locus ID: 4267

UniProt ID: [P14209](#)

Cytogenetics: X;Y

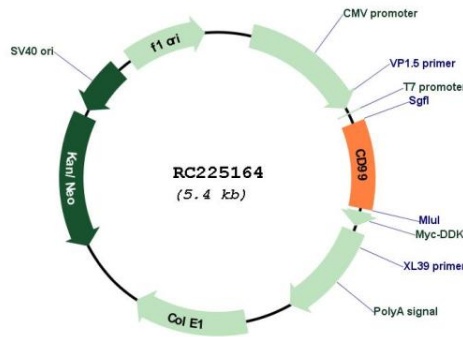
**Protein Families:** Druggable Genome, Transmembrane

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

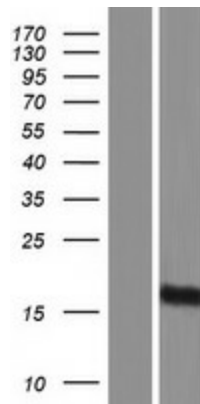
**MW:** 17.13 kDa

**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 RC225164



Western blot validation of overexpression lysate (Cat# [LY426583]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).