

Product datasheet for **SC118640**

CD99 (NM_002414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD99 (NM_002414) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD99
Synonyms:	HBA71; MIC2; MIC2X; MIC2Y; MSK5X
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC118640 representing NM_002414. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCGCCGCCCGGAT
GGTGGTTTCGATTATCCGATGCCCTTCCTGACAATGAAAACAAGAAACCCACTGCAATCCCAAGAAA
CCCAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAATGACGACCACGACCA
CCGAACCCACCAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGCTTTTCAGAT
GCTGACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCACAGG
AAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGATTGTGGGGGCTGTCGTGGTCGCCGTG
GCTGGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGAACAAGGG
GAGGTGGACATGGAGAGCCACCGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAA
TAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002414 unedited
 AAGTTCAGATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACGAGGCGTCCCTG
 CGCGCTCTGGGCGCACCATGGCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTGC
 TGGGTGTTCTGGTCGCCGCCCGGATGGTGGTTTCGATTTATCCGATGCCCTTCTGACA
 ATGAAAACAAGAAACCCACTGCAATCCCCAAGAAACCCAGTGTGGGGATGACTTTGACT
 TAGGAGATGCTGTTGTTGATGGAGAAAAAGACGACCCACGACCACCGAACCCACCCAAAC
 CGATGCCAAATCCAACCCCAACCACCCTAGTTCCTCCGGTAGCTTTTCAGATGCTGACC
 TTGCGGATGGCGTTTCAGGTGGAGAAAGAAAGGAGGCAGTGATGGTGGAGGCAGCCACA
 GGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCGGGATTGTGGGGGCTGTCG
 TGGTCGCCGTGGCTGGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCT
 TCAAAGAAAAATGAACAAGGGGAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGC
 CAGCTGTTACGCTACTTTTTAGAGAAATAGAAGATTGTCGGCAGAAACAGCCAGGCG
 TTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAANGACACCTGCCTGAGAG
 CAGAGATGGAGGCTTCTGTTACGCGCGATTCTTTGTTTTAATCTTGCGATGTGCTTTG
 CTTGTTGCTGGGCGATGATGTTTACTAACGATGAATTTTACATCAAAGGGGGATAGGC
 ACTTGNACCCCAATTCTCCAAGCCCGGGGGGCGGTTTNCCTATGGATGTGAAAGGGCTG
 CCCATTATAAGTCNCTGTNACTCANATGTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002414 unedited
 CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGTTTCTAATTTCTTTTTATT
 AGTCTGATATGAAAAACAAATATCCCTACAAATGAAAGAAATATTGAAGAAACAAATTGA
 AGGGCTTACCTTATTTTAAATTAAGAGAGTCCGGGCTACCAGGGGTTTCAGACGTGCTC
 GATGGACACGTGATTTGTAACAGCCAAGATTCTGGGGACGGGGGGTGCCTCGGTGGG
 GTTGACATTTGAGTTACAGGGACTTAATAATGGCCAGCCTTTCACATCCCATGGGAAACC
 GCCCCCCCGGCCCTTGGAGAATGGGGTCCAAGTGCCTATCCCCCTTTGGATGTAAAATT
 CATCGTTAGTAAACATCATCCGCCAGCAACAAGCAAAGCACATCGCAAGATTAACAA
 AGAATCCGCCGTGAACAGAGGCTCCATCTCTGCTCTCAGGCAGGTGCTCCTCAGGGAG
 GAGCCTCAGGCAGCTGTTCTAACCTGCTGCCAACGCCTGGGCTGTTCTGCCGACAATC
 TTCTATTTCTCTAAAAGAGTACGCTGAACAGCTGGCTCTGCGTTGGCATTCCGGTGGCTC
 TCCATGTCCACCTCCCCTTGTTCATTTTCTTTGAAGCATAGCTTCTTTTTCTGGTAAGCA
 ATGAAGCTAGAGATGGCTCCAGCCACGGGACCCAGCACAGCCCAACAATCCCGGGGATC
 ACGCCTGGGGCGTCGGCCTCTTCCCTTCTTTCCCTGTGGCTGCCTNACCATCACTGCCT
 NCTTTTNCCTCTNCACTGAAACGCCATCCGCAAGGTCAGCATCTTGAAAGCTACCGGNA
 GAACTAGGNTGGGTTGGGGTTNGGNNATTGCATCGNCNTTGGTGGGTTCCGGTGGCCNGG
 TTCGTNATTTTCTCATCAACACAGCATCTNCTAGTCAAGTCATCCAGACTGGGTTCTT
 GGGGATGGCAGGGGTTCTGTTTCATTTAC

Restriction Sites:

NotI-NotI

ACCN:

NM_002414

Insert Size:

555 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002414.3
RefSeq Size:	1255 bp
RefSeq ORF:	555 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:	<p>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]</p> <p>Transcript Variant: This variant (1, also known as type I) encodes the longest isoform (a, also known as CD99wt).</p>