

Product datasheet for **SC119334**

CD68 (NM_001251) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD68 (NM_001251) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD68
Synonyms:	GP110; LAMP4; SCARD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001251, the custom clone sequence may differ by one or more nucleotides

```
ATGAGGCTGGCTGTGCTTTTCTCGGGGGCCCTGCTGGGGCTACTGGCAGCCCAGGGGACAGGGAATGACT
GTCCTCACAAAAATCAGCTACTTTGCTGCCATCCTTCACGGTGACACCCACGGTTACAGAGAGCACTGG
AACACCAGCCACAGGACTACCAAGAGCCACAAAACCACCACTCACAGGACAACCACCACAGGCACCACC
AGCCACGGACCCACGACTGCCACTCACAACCCACCACCAGCCATGGAAACGTCACAGTTTCATCCAA
CAAGCAATAGCACTGCCACCAGCCAGGGACCCTCAACTGCCACTCACAGTCCTGCCACCAGTATGTCATGG
AAATGCCACGGTTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTACACAGTTCTGCCACCCA
GAACCACCTCCACCCTCTCCGAGTCTAGCCCAACCTCCAAGGAGACCATTGGAGACTACACGTGGACCA
ATGGTTCCAGCCCTGTGTCCACCTCCAAGCCAGATTGAGATTGAGTCAATGTACACAACCCAGGGTGG
AGGAGAGGCTGGGGCATCTGTACTGAACCCCAACAAAACCAAGGTCCAGGGAAGCTGTGAGGGTGCC
CATCCCCACCTGCTTCTCATTCCCCTATGGACACCTCAGCTTTGGATTCATGCAGGACCTCCAGCAGA
AGGTTGTCTACCTGAGCTACATGGCGGTGGAGTACAATGTGTCTTCCCCACGCAGCACAGTGGACATT
CTCGGCTCAGAAATGCATCCCTTCGAGATCTCCAAGCACCCTGGGGCAGAGCTTCAGTTGCAGCAACTCG
AGCATATTCTTTCACCAGCTGTCCACCTCGACCTGCTCTCCCTGAGGCTCCAGGCTGCTCAGCTGCCCC
ACACAGGGGTCTTTGGGCAAAGTTTCTCCTGCCCAGTGACCGGTCCATCTTGTGCCTCTCATCATCGG
CCTGATCCTTCTTGGCCTCCTCGCCCTGGTGCTTATTGCTTTCTGCATCATCCGGAGACGCCATCCGCC
TACCAGGCCCTCTGA
```



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001251 unedited
 NGTCACCATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGCTTTGGGTG
 AGGCGGTTTACCCATGAGGCTGGCTGTGCTTTTCTCGGGGGCCCTGCTGGGGCTACTGGC
 AGCCCAGGGGACAGGGAATGACTGTCCTCACAAAAATCAGTACTTTGCTGCCATCCTT
 CACGGTGACACCCACGGTTACAGAGAGCACTGGAACAACCAGCCACAGGACTACCAAGAG
 CCACAAAAACCACCACTCACAGGACAACCACCAGGCACCACCAGCCACGGACCCACGAC
 TGCCACTCACAACCCACCACCAGCCATGGAACAGTCACAGTTCATCCAACAAGCAA
 TAGCACTGCCACCAGCCAGGGACCCTCAACTGCCACTCACAGTCTGCCACCAGTCA
 TGGAAATGCCACGGTTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAG
 TTCTGCCACCCAGAACCACCTCCACCCTCTCCGAATCCTAGCCCAACCTCCAAGGAGAC
 CATTGGAGACTACACGTGGACCAATGGTCCCAGCCCCGTGCCACCTCCAAGCCAGAT
 TCAGATTCGAGTCATGTACACAACCAGGGTGGAGGAGAGGCCTGNGGCATCTCTGACT
 GAACCCCAACAAAACCAAGTCCAGGGAACCTGTGAGGGTGCCCATCCNCACCTGCTTCT
 CTCATTCCTATGGACACCTCAGCTNTGGATTATGCANGACCTNCAGCAGAAGTTGT
 CTACCTGAGCTACATGGCGGTGGAGTACAATGTGTCCCTTCCCCACGCAGCACAGTGGAC
 ATTCTCGGCTCAGATGCATNCCTTCGAGACTCCAGCACCCCTGGNNGCAGAGCTCAGTGC
 AGCACTCGAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001251 unedited
 TATGAACCGCGGCCGAATCTAAGATCGAGTTTTTTTTTTTTTTTTTTTGACAAAAAATC
 ATGGCTTTTAATCCTGGCAGGACAAGGGAAAACCCCGTCAAAAAATTTGCATAAATTTTGC
 TGCTCTCCTGCTGGGGGGGGGGGGGGCCATTCTCCACATTAATAAAAAATTTCTTTCC
 CTCCTTTCTCCCAACTGCATAATCTAATATTAATTAATTTAAACATTCTGCCTTTCCC
 CCCAGCCTGAATTCCATTGCCCAATCTTGCTAATTGCCCAATAACGGCTCACTGAAA
 CCTCCACCTCCTGGTTAAACCATTTCTCCCTCACCCCTCCAATTACCTGGAATTACAGC
 CCACCTGGAATTACCCCCCACACCTGCCTAATTGAATTTAATAAAAAACAGGTTTTAA
 CCATTTTGCCAGCCTGTCTAAACTCCTAACCTCAATTAACCCACCTCCCTAACCCCTC
 CCAAATGCTGGAATAACAGCCATAACCCGTAATCCCCGGTTTTCTTTTGTCTTAAAA
 AAAGGAAAGAAAATAACATTGTCTTTAACCCATTTCTTTTCAAGAAAAAAGGTTACC
 CCCCCACAAAACCCAAACCCCTTAATTGCCCTGGGCTTTAAACCAATTTAAAAAGCC
 TGTTAGCCGAATGGCCCTTCTCCGTATAATCAAAAACCATAACCCCCAGGCCAAAAAGC
 CCAAAAAAATCAGCCCCCTCATAAAAACCCCAAAAAATGACACCTTCACTTGGGCCAG
 GAAAAAATTTGCCCAAAAACCCCTTTTGGGCCACCTATACACCTGAACCCCAAGA
 AAAACACTTCAAGGTGCACACCTTTTGAACAATATACCCCATCTCCTAAAACATAACC
 CTTCCCAAGCGTCTTAGAAATCTTCAAAGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_001251

Insert Size:

1730 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001251.1](#), [NP_001242.1](#)

RefSeq Size: 1872 bp

RefSeq ORF: 1872 bp

Locus ID: 968

UniProt ID: [P34810](#)

Cytogenetics: 17p13.1

Domains: Lamp

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

Gene Summary:

This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A).