

## Product datasheet for **SC311078**

### CD68 (NM\_001040059) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD68 (NM_001040059) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD68
Synonyms:	GP110; LAMP4; SCARD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311078 representing NM_001040059. Blue=Insert sequence Red=Cloning site Green=Tag(s)

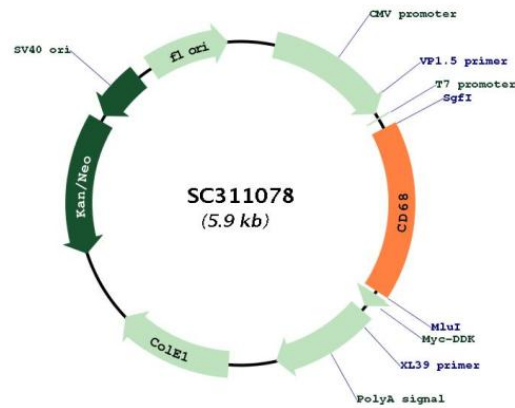
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GCTCGTTTGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGCTGGCTGTGCTTTTCTCGGGGGCCCTGCTGGGGCTACTGGCAGAGAGCACTGGAACAACCGC
CACAGGACTACCAAGAGCCACAAAACCACCCTCACAGGACAACCACCACAGGCACCACCAGCCACGGGA
CCCACGACTGCCACTCACAACCCACCACCAGCCATGGAAACGTACAGTTCATCCAACAAGCAAT
AGCACTGCCACCAGCCAGGGACCCTCACTGCCACTCACAGTCTGCCACCCTAGTCATGGAAATGCC
ACGGTTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAGTCTGCCACCAGCAACCA
CCTCCACCCTCTCCGAGTCTAGCCCACTCCAAGGAGACCATTGGAGACTACACGTGGACCAATGGT
TCCAGCCCTGTGTCCACCTCCAAGCCAGATTGAGATTCGAGTATGTACACAACCAGGGTGGAGGA
GAGGCCTGGGGCATCTCTGACTGAACCCCAACAAAACCAAGGTCCAGGGAAGCTGTGAGGGTGCCAT
CCCCACCTGCTTCTCTCATTCCCCTATGGACACCTCAGCTTTGGATTTCATGCAGGACCTCCAGCAGAAG
GTTGTCTACCTGAGCTACATGGCGGTGGAGTACAATGTGTCTTCCCCACGCAGCACAGTGGACATTC
TCGGCTCAGAATGCATCCCTTCGAGATCTCAAGCACCCCTGGGGCAGAGCTTCAGTTGCAGCAACTCG
AGCATCATTCTTACCAGCTGTCCACCTCGACCTGCTCTCCCTGAGGCTCCAGGCTGCTCAGCTGCC
CACACAGGGGTCTTTGGCAAAGTTTCTCTGCCCCAGTGACCGGTCCATCTTGTGCCTCTCATCATC
GGCCTGATCCTTCTGGCCTCCTCGCCCTGGTGCTTATTGCTTTCATCATCCGGAGACGCCCATCC
GCCTACCAGGCCCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001040059

Insert Size: 984 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001040059.1](#)

RefSeq Size: 1790 bp

RefSeq ORF: 984 bp

Locus ID: 968

UniProt ID:	<a href="#">P34810</a>
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome
MW:	34.7 kDa

**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 (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform B), compared to isoform A.