

Product datasheet for **SC320304**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001251.2
 GGCACGAGGGGAGCAGGGTTGAGCAACTGGTGCAGACAGCCTAGCTGGACTTTGGGTGA
 GGCGGTTACGCCATGAGGCTGGCTGTGCTTTTCTCGGGGGCCCTGCTGGGGCTACTGGCA
 GCCCAGGGGACAGGGAATGACTGTCTCACAAAAATCAGCTACTTTGCTGCCATCCTTC
 ACGGTGACACCCACGGTTACAGAGAGCACTGGAACAACCAGCCACAGGACTACCAAGAGC
 CAAAAACCACCACTCACAGGACAACCACCACAGCACCACCAGCCACGGACCCACGCAAT
 GCCACTACAACCCACCACCAGCCATGGAACGTACAGTTCATCCAACAAGCAAT
 AGCACTGCCACCAGCCAGGGACCCTCAACTGCCACTCACAGTCCTGCCACCACTAGTCAT
 GGAAATGCCACGGTTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAAGT
 TCTGCCACCCAGAACCCTCCACCCTCTCCGAGTCCTAGCCCAACCTCCAAGGAGACC
 ATTGGAGACTACAGTGGACCAATGGTTCACAGCCCTGTGTCCACCTCCAAGCCAGATT
 CAGATTCGAGTCATGTACACAACCCAGGGTGGAGGAGAGGCTGGGGCATCTCTGTACTG
 AACCCCAACAAAACCAAGGTCCAGGGAAGCTGTGAGGGTCCCATCCCCACCTGTTCTC
 TCATTCCTATGGACACCTCAGCTTTGGATTCATGCAGGACCTCCAGCAGAAGTTGTG
 TACCTGAGCTACATGGCGGTGGAGTACAATGTGTCTTCCCCACGCAGCACAGTGGACA
 TTCTCGGCTCAGAATGCATCCCTTCGAGATCTCCAAGCACCCCTGGGGCAGAGCTTCAGT
 TGACGCAACTCGAGCATATTCTTCCACAGCTGTCCACCTCGACCTGCTCTCCCTGAGG
 CTCCAGGCTGCTCAGTGCCCCACACAGGGTCTTTGGGCAAAGTTTCTCCTGCCCCAGT
 GACCGTCCATCTTGCTGCCTCTCATCATCGGCCTGATCCTTCTTGGCCTCCTCGCCCTG
 GTGCTTATTGCTTTTGCATCATCCGGAGACGCCCATCCGCCTACCAGGCCCTCTGAGCA
 TTTGCTTCAAACCCAGGGCACTGAGGGGGTGGGGTGTGGTGGGGGGTACCCTATTT
 CCTCGACACGCAACTGGCTCAAAGACAATGTTATTTTCTTCCCTTTCTGAAGAACAAA
 AAGAAAGCCGGGCATGACGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAG
 GTGGATCACTGGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCCCTGTCT
 CTAATAAAAATAAATTAGCCAGGTGTGGCGGCGTAATCCCAGCTGGCCTGTAATCCCAG
 CTACTTGGGAGGCTGAGGCAGAAGTCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCG
 TCATCGCGCCACTAAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGA
 CTGTCTCAAATAAATAAATATGAGATAATGCAGTGGGAGAAAGGGAGGAGAGAAATTTA
 TAAATGTGACGAACTGCCCCCCCCCCCCAGCAGGAGAGCAGCAAAATTTATGCAATC
 TTTGACGGGGTTTCTTGTCTGCCAGGATTAAGCCATGAGTTTCTAAAAA
 AAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001251

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](#)

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:	<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:	NM_001251.2 , NP_001242.2
RefSeq Size:	1872 bp
RefSeq ORF:	1065 bp
Locus ID:	968
UniProt ID:	P34810
Cytogenetics:	17p13.1
Domains:	Lamp
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A).</p>