

## Product datasheet for **RG200392**

### CD68 (NM\_001251) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD68 (NM_001251) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD68
Synonyms:	GP110; LAMP4; SCARD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200392 representing NM_001251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCTGGCTGTGCTTTTCTCGGGGCCCTGCTGGGGCTACTGGCAGCCAGGGGACAGGGAATGACT  
GTCCTCACAAAAATCAGCTACTTTGCTGCCATCCTTCACGGTGACACCCACGGTTACAGAGAGCACTGG  
AACACCAGCCACAGGACTACCAAGAGCCACAAAACCACCACTCACAGGACAACCACCACAGGCACCACC  
AGCCACGGACCCAGGACTGCCACTCACAAACCCACCACCAGCCATGGAACGTCACAGTTCATCCAA  
CAAGCAATAGCACTGCCACCAGCCAGGGACCCTCAACTGCCACTCACAGTCTGCCACCCTAGTCATGG  
AAATGCCACGGTTCATCCAAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAGTTCGCCCCACCA  
GAACCACCTCCACCTCTCCGAGTCTAGCCCAACCTCCAAGGAGACCATTGGAGACTACAGTGGACCA  
ATGGTTCCAGCCCTGTGTCCACCTCCAAGCCAGATTGAGATTCGAGTTCATGTACACAACCCAGGGTGG  
AGGAGAGGCTGGGGCATCTCTGTACTGAACCCCAACAAAACCAAGGTCAGGGAAGCTGTGAGGGTGGC  
CATCCCCACCTGCTTCTCTATTCCCCTATGGACACCTCAGCTTTGGATTCATGCAGGACCTCCAGCAGA  
AGGTTGTCTACCTGAGCTACATGGCGGTGGAGTACAATGTGTCTTCCCCACGCAGCACAGTGGACATT  
CTCGGCTCAGAATGCATCCCTTCGAGATCTCAAGCACCCCTGGGGCAGAGCTTCAGTTGCAGCAACTCG  
AGCATATTCTTTCACCAGCTGTCCACCTCGACCTGCTCTCCCTGAGGCTCCAGGCTGCTCAGCTGCCCC  
ACACAGGGGTCTTTGGCAAAGTTTCTCCTGCCCAAGTACCCAGTACCCGGTCCATCTTGTGCTCTCATCTCGG  
CCTGATCCTTCTTGGCCTCTCGCCCTGGTGTATTGCTTTCTGCATCATCCGGAGACGCCCATCCGCC  
TACCAGGCCCTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200392 representing NM\_001251  
 Red=Cloning site Green=Tags(s)

MRLAVLFSGALLGLLAAQGTGNDPCPHKKSATLLPSFTVTPVTESTGTTSHRRTTKSHKTTTTHRTTTTGT  
 SHGPTTATHNPSTTSHGNVTVHPTSNSTATSQGPSTATHSPATTSHGNATVHPTSNSTATSPGFTSSAHP  
 EPPPPSPSPSPTSKETIGDYTWNGSQPCVHLQAQIQIRVMTTQGGGEAWGISVLNPNKTKVQGSCEGA  
 HPHLLLSPYPYGHLSFGFMQDLQKVVVYLSYMAVEYNVSPHAAQWTFSAQNASLRDLQAPLQSFSCSNS  
 SIILSPAVHLDLLSLRLQAAQLPHTGVFGQSFSCPSDRSILLPLIIGLILLGLLALVLI AF CI IRRRPSA  
 YQAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001251

**ORF Size:** 1062 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\\_001251.3](#)

**RefSeq Size:** 1872 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 968

**UniProt ID:** [P34810](#)

**Cytogenetics:** 17p13.1

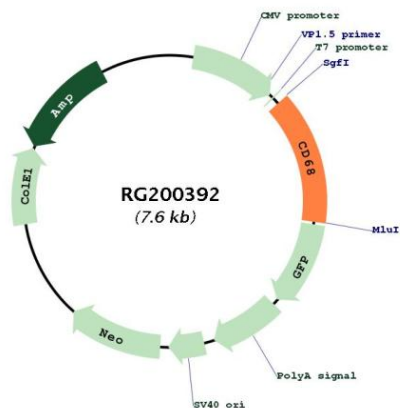
**Domains:** Lamp

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Lysosome

**Gene Summary:** 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]

Product images:



Circular map for RG200392