

## Product datasheet for **RG220055**

### CD68 (NM\_001040059) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD68 (NM\_001040059) 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:** >RG220055 representing NM\_001040059  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGCTGGCTGTGCTTTTCTCGGGGCCCTGCTGGGGCTACTGGCAGAGAGCACTGGAACAACCAGCC  
 ACAGGACTACCAAGAGCCACAAAACCACCACTCACAGGACAACCACCACAGGCACCACCAGCCACGGACC  
 CACGACTGCCACTACAACCCACCACCAGCCATGGAAACGTCACAGTTCATCCAACAAGCAATAGC  
 ACTGCCACCAGCCAGGGACCCCTCAACTGCCACTCACAGTCCTGCCACCACTAGTCATGAAATGCCACGG  
 TTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAGTTCTGCCACCCAGAACCACCTCC  
 ACCCTCTCCGAGTCTTAGCCCAACCTCCAAGGAGACCATTGGAGACTACACGTGGACCAATGGTTCCAG  
 CCCTGTGTCCACCTCCAAGCCCAGATTCAGATTCGAGTCATGTACACAACCCAGGGTGGAGGAGAGGCC  
 GGGCATCTCTGTACTGAACCCCAAAAACCAAGGTCCAGGGAAGCTGTGAGGGTGCCCATCCCCACCT  
 GCTTCTCTCATTCCCCTATGGACACCTCAGCTTTGGATTCATGCAGGACCTCCAGCAGAAGGTTGTCTAC  
 CTGAGCTACATGGCGGTGGAGTACAATGTGCTTCCCCACGCAGCACAGTGGACATTCCTCGGCTCAGA  
 ATGCATCCCTTCGAGATCTCAAGCACCCCTGGGGCAGAGCTTCAGTTCAGCAACTCGAGCATCATTCT  
 TTCACCAGCTGTCCACCTCGACCTGCTCTCCCTGAGGCTCCAGGCTGCTCAGCTGCCACACAGGGGTC  
 TTTGGGCAAAGTTTCTCCTGCCAGTGACCGGTCCATCTTGCTGCCTCTCATATCGGCCTGATCCTTC  
 TTGGCCTCTCGCCCTGGTGCTTATTGCTTTCTGCATCATCCGGAGACGCCCATCCGCCTACCAGGCCCT  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220055 representing NM\_001040059  
 Red=Cloning site Green=Tags(s)

MRLAVLFSGALLGLLAESTGTTSHRTTKSHKTTTHRTTTTGTTSHGPTTATHNPTTSHGNVTVHPTSNS  
 TATSQGPSTATHSPATTSHGNATVHPTSNSTATSPGFSSAHPEPPPPSPSPSPTSKETIGDYTWNGSQ  
 PCVHLQAQIQIRVMTTQGGGEAWGISVLNPNKTKVQGSCEGAHPHLLL SFPYGHLSFGFMQDLQQKVVY  
 LSYMAVEYNVSFPHAAQWTF SAQNASLRDLQAPLGQSFSCSNSSIILSPAVHLDLLSLRLQAAQLPHTGV  
 FGQSFSCPSDRSILLPLIIGLILLGLLALVLI AF CI IRRRPSAYQAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001040059

**ORF Size:** 981 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\\_001040059.2](#)

**RefSeq Size:** 1790 bp

**RefSeq ORF:** 984 bp

**Locus ID:** 968

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

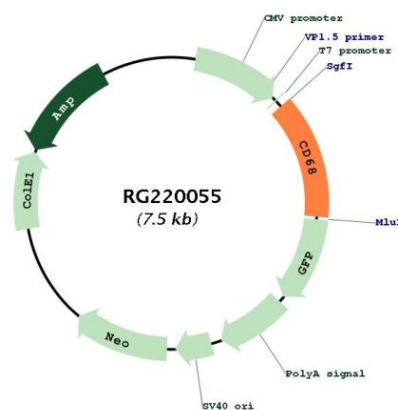
**Cytogenetics:** 17p13.1

**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 RG220055