

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
CACGACTGCCACTACAACCCACCACCAGCCATGGAACGTCACAGTTCATCCAACAAGCAATAGC
ACTGCCACCAGCCAGGGACCCTCAACTGCCACTCACAGTCCTGCCACCCTAGTCATGGAATGCCACGG
TTCATCCAACAAGCAACAGCACTGCCACCAGCCAGGATTCACCAGTTCTGCCACCCAGAACCACCTCC
ACCTCTCCGAGTCTTAGCCCAACCTCCAAGGAGACCATTGGAGACTACACGTGGACCAATGGTTCCAG
CCCTGTGTCCACCTCCAAGCCCAGATTCAGATTCGAGTCATGTACACAACCCAGGGTGGAGGAGAGGCC
GGGGCATCTGTACTGAACCCCAAAAACCAAGGTCCAGGGAAGCTGTGAGGGTGCCCATCCCCACCT
GCTTCTCTCATTCCCCTATGGACACCTCAGCTTTGGATTCATGCAGGACCTCCAGCAGAAGGTTGTCTAC
CTGAGCTACATGGCGGTGGAGTACAATGTGCTTCCCCACGCAGCACAGTGGACATTCCTGGCTCAGA
ATGCATCCCTTCGAGATCTCAAGCACCCCTGGGGCAGAGCTTCAGTTCAGCAACTCGAGCATCATTCT
TTCACCAGCTGTCCACCTCGACCTGCTCTCCCTGAGGCTCCAGGCTGCTCAGCTGCCACACAGGGGTC
TTTGGGCAAAGTTTCTCCTGCCCAGTGACCGGTCCATCTTGCTGCCTCTCATCATCGGCCTGATCCTTC
TTGGCCTCCTCGCCCTGGTGCTTATTGCTTTCTGCATCATCCGGAGACGCCCATCCGCCTACCAGGCCCT
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220055 representing NM_001040059
 Red=Cloning site Green=Tags(s)

MRLAVLFSGALLGLLAESTGTTSHRTTKSHKTTTHRTTTTGTTSHGPTTATHNPSTTSHGNVTVHPTSNS
 TATSQGPSTATHSPATTSHGNATVHPTSNSTATSPGFTSSAHPEPPPPSPSPSPTSKETIGDYTWNGSQ
 PCVHLQAQIQIRVMTTQGGGEAWGISVLNPNKTKVQGSCEGAHPHLLL SFPYGHLSFGFMQDLQKVVY
 LSYMAVEYNVSPHAAQWTFSAQNASLRDLQAPLGQSFSCSNSSIILSPAVHLDLLSLRLQAAQLPHTGV
 FGQSFSCPSDRSILLPLIIGLILLGLLALVLI AF CI IRRRPSAYQAL

TRTRPLE - GFP Tag - V

Restriction Sites:

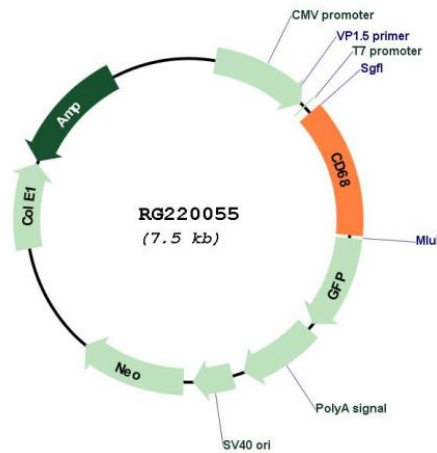
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_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]