

Product datasheet for **MG204757**

Cd68 (BC021637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd68 (BC021637) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd68
Synonyms:	gp110, Scard1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204757 representing BC021637 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTCCCTGTGTCTGATCTTGCTAGGACCGCTTATAGCCCAAGGAACAGAGGAAGACTGTCCTC
ACAAAAGGCCGTTACTCTCCTGCCATCCTTCACGATGACACCTACAGCCACAGAAAGCACAGCCAGCCC
TACGACCAGCCACAGGCCACCACCACAGTCACGGAAATGTCACAGTTCACACCAGCTCCGGACCCACA
ACTGTCACCTATAACCCGCCACCACCACAGTCATGGGAATGCCACAATTTCTCATGCCACAGTTTCTC
CCACCACAAATGGCACTGCTACTAGTCCAAGATCCTCCACTGTTGGCCCTCACCTGGACCACCTCCACC
CTCGCCTAGTCCAAGGTCCAAGGGGCTCTGGGAACACACGTGGGCCAACGGCTCCAGCCTTGTTGTT
CAGCTCCAAGCCAAATTCAAATCCGAATCCTATACCCAATTCAGGGTGGAAAGAAAGGCTTGGGGCATAT
CTGTTTTGAATCCCAACAAAACCAAGGTCCAGGGAGGTTGTGACGGTACCCATCCCCACCTGTCTCTCTC
ATTTCTTATGGACAGCTTACCTTTGGATTCAAACAGGACCTACATCAGAGCCCGAGTACAGTCTACCTG
GACTACATGGCGGTGGAATAAATGTGTCTTCCCACAGGCAGCAGTGGACATTCATGGCGCAGAATT
CATCTCTCGAGAGCTCCAAGCTCCCTTGGCCAAAGCTTCTGCTGTGAAATGCAAGCATAGTTCTTTTC
TCCAGCTGTTACCTTGACCTGCTCTCTAAGGCTACAGGCTGCTCAGCTGCCTGACAAGGGACACTTC
GGGCCATGTTTCTTTGCAACCGTGACCAGTCCCTCTTGTGCTCCTCATCATTGGCCTGGTCCCTCCTCG
GCCTCTCACCTGGTGTCTATCGCCTTCTGCATACCCCGCAGACGACAATCAACCTACCAGCCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204757 representing BC021637
 Red=Cloning site Green=Tags(s)

MRLPVCLILLGPLIAQGTEDCPHKKAVTLLPSFTMTPTATESTASPTTSHRPTTSHGNVTVHTSSGPT
 TVTHNPATTTSHGNATISHATVSPPTNGTATSPRSSTVGPHPGPPPPSPSPRSKAGALGNYTWANGSQPCV
 QLQAQIQIRILYPIQGGKAWGISVLNPNKTKVQGGCDGTHPHLSLSPFYGQLTFGFKQDLHQSPSTVYL
 DYMAVEYNVSPQAAQWTFMAQNSSLRQLQAPLQGSFCGNGASIVLSPAVHLDLLSLRLQAAQLPDKGHF
 GPCFSCNRDQSLLLPLIIGLVLLGLLTLVLI AFCITRRRQSTYQPL

TRTRPLE - GFP Tag - V

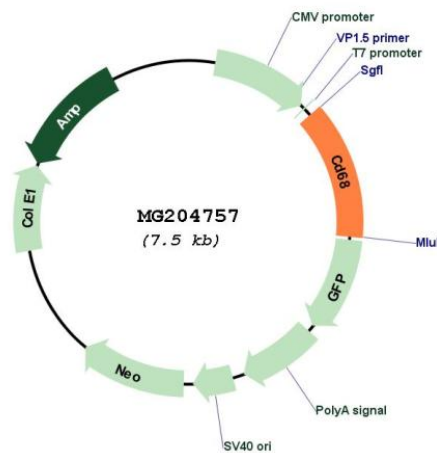
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC021637

ORF Size: 980 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:	BC021637 , AAH21637
RefSeq Size:	1204 bp
RefSeq ORF:	980 bp
Locus ID:	12514
Cytogenetics:	11 42.86 cM
Gene Summary:	Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells. [UniProtKB/Swiss-Prot Function]