

## Product datasheet for MR225842

### Cd68 (NM\_009853) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd68 (NM_009853) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd68
Synonyms:	gp110; Lamp4; Scard1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225842 representing NM_009853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCTCCCTGTGTCTGATCTTGCTAGGACCGCTTATAGCCCAAGGAACAGAGGAAGACTGTCCTC  
ACAAAAAGGCCGTTACTCTCCTGCCATCCTTACGATGACACCTACAGCCACAGAAAGCACAGCCAGCCC  
TACGACCAGCCACAGGCCACCACCACAGTCACGGAAATGTCACAGTTCACACCAGCTCCGACCCACA  
ACTGTCACCTATAACCTGCCACCACCACAGTCATGGGAATGCCACAATTTCTCATGCCACAGTTTCTC  
CCACCACAAATGGCACTGCTACTAGTCCAAGATCCTCCACTGTTGGCCCTCACCTGGACCACCTCCACC  
CTCGCCTAGTCCAAGGTCCAAGGGGCTCTTGGGAACACACGTGGGCCAACGGCTCCAGCCTTGTGTT  
CAGCTCCAAGCCAAATCAAATCCGAATCCTATACCCAATTCAGGGTGGAGAAAGGTAAGCTAAAGT  
GGGGCTTAAAGAGGGCTTGGGGCATATCTGTTTTGAATCCCAACAAAACCAAGGTCCAGGGAGGTTGTGA  
CGGTACCCATCCCACCTGTCTCTCTATTTCTTATGGACAGCTTACCTTTGGATTCAAACAGGACCTA  
CATCAGAGCCCGAGTACAGTCTACCTGGACTACATGGCGGTGGAATAAATGTGTCCTTCCCACAGGCAG  
CACAGTGGACATTCATGGCGCAGAATTCATCTCTCGAGAGCTCCAAGCTCCCTTGGGCCAAAGCTTCTG  
CTGTGGAATGCAAGCATAGTTCTTCTCCAGCTGTTACCTTGACCTGCTCTCTAAGGCTACAGGCT  
GCTCAGTGCCTGACAAGGGACACTTCGGGCCATGTTTCTTTGCAACCGTGACCAGTCCCTCTTGCTGC  
CTCTCATATTGGCCTGGTCTCTCGGCTCCTCACCTGGTGTCTATCGCCTTCTGCATACCCGCGAG  
ACGACAATCAACCTACCAGCCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225842 representing NM\_009853  
Red=Cloning site Green=Tags(s)

MRLPVCLILLGPLIAQGTEEDCPHKKAVTLLPSFTMTPTATESTASPTTSHRPTTSHGNVTVHTSSGPT  
 TVTHNPATTTSHGNATISHATVSPTTNGTATSPRSSTVGPHPGPPPPSPSPRSK GALGNYTWANGSQPCV  
 QLQAQIQIRILYPIQGGKRVKWKGLKRAWGISVLNPNKTKVQGGCDGTHPHLSL SFPYQQLTFGFKQDL  
 HQSPSTVYLDYMAVEYNV SFPQAAQWTFMAQNSSLRELQAPLGQSFCCGNASIVLSPAVHLDLLSLRLQA  
 AQLPDKGHFGPCFSCNRDQSLLLPLIIGLVLLGLLTLVLI AF C I T R R R R Q S T Y Q P L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9030\\_g08.zip](https://cdn.origene.com/chromatograms/mm9030_g08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009853

**ORF Size:** 1005 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\\_009853.1](#), [NP\\_033983.1](#)

**RefSeq Size:** 1008 bp

**RefSeq ORF:** 1008 bp

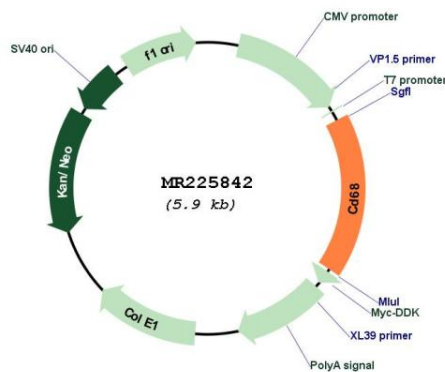
**Locus ID:** 12514

**Cytogenetics:** 11 42.86 cM

**MW:** 36.4 kDa

**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]

### Product images:



Circular map for MR225842