

Product datasheet for MR229261

Cd68 (NM_001291058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd68 (NM_001291058) 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:	>MR229261 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTCCCTGTGTCTGATCTTGCTAGGACCGCTTATAGCCCAAGGAACAGAGGAAGACTGTCCTC
ACAAAAAGGCCGTTACTCTCCTGCCATCCTTCACGATGACACCTACAGCCACAGAAAGCACAGCCAGCCC
TACGACCAGCCACAGGCCACCACCACAGTCACGGAAATGTCACAGTTCACACCAGCTCCGACCCACA
ACTGTCACCTATAACCTGCCACCACCACAGTCATGGGAATGCCACAATTTCTCATGCCACAGTTTCTC
CCACCACAAATGGCACTGCTACTAGTCCAAGATCCTCCACTGTTGGCCCTCACCTGGACCACCTCCACC
CTCGCCTAGTCCAAGGTCCAAGGGGCTCTTGGGAACACACGTGGGCCAACGGCTCCACGCTTGTGTT
CAGCTCCAAGCCAAATTCAAATCCGAATCCTATACCCAATTCAGGGTGGAAAGAAAGGCTTGGGGCATAT
CTGTTTTGAATCCCAACAAAACCAAGGTCCAGGGAGGTTGTGACGGTACCCATCCCCACCTGTCTCTCTC
ATTTCTTATGGACAGCTTACCTTTGGATTCAAACAGGACCTACATCAGAGCCCGAGTACAGTCTACCTG
GACTACATGGCGGTGGAATAAATGTGTCTTCCACAGGCAGCAGTGGACATTCATGGCGCAGAATT
CATCTCTCGAGAGCTCCAAGCTCCCTTGGCCAAAGCTTCTGCTGTGAAATGCAAGCATAGTTCTTTC
TCCAGCTGTTACCTTGACCTGCTCTCTAAGGCTACAGGCTGCTCAGCTGCCTGACAAGGACACTTC
GGCCATGTTTCTTTGCAACCGTGACCAGTCCCTCTTGTGCTCCTCATCATTGGCCTGGTCCCTCCTCG
GCCTCTCACCTGGTGTCTATCGCCTTCTGCATACCCGCAGACGACAATCAACCTACCAGCCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229261 protein sequence
Red=Cloning site Green=Tags(s)

MRLPVCLILLGPLIAQGTEDCPHKKAVTLLPSFTMTPTATESTASPTTSHRPTTSHGNTVHTSSGPT
 TVTHNPATTTSHGNATISHATVSPPTNGTATSPRSSTVGPHPGPPPPSPSPRSKALGNYSWANGSQPCV
 QLQAQIQIRILYPIQGGKAWGISVLNPNKTKVQGGCDGTHPHLSLSPFYQQLTFGFKQDLHQSPSTVYL
 DYMAVEYNVSPQAAQWTFMAQNSLRELQAPLQGSFCGNASIVLSPAVHLDLLSLRLQAAQLPDKGHF
 GPCFSCNRDQSLLLPLIIGLVLLGLLTLVLI AFCITRRRQSTYQPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001291058

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_001291058.1](#), [NP_001277987.1](#)

RefSeq Size: 1263 bp

RefSeq ORF: 981 bp

Locus ID: 12514

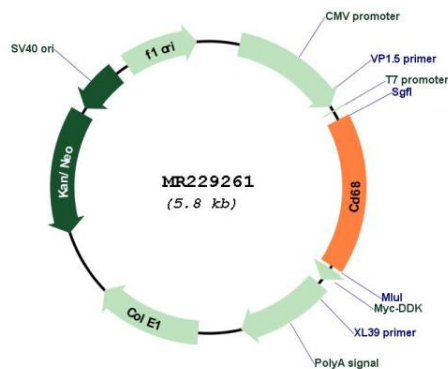
UniProt ID: [P31996](#)

Cytogenetics: 11 42.86 cM

MW: 34.8 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 MR229261