

## Product datasheet for **MR209740**

### **Mcam (NM\_023061) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcam (NM_023061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcam
Synonyms:	1-gicerin; AV025631; CD146; CD149; Muc18; s-endo; s-gicerin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR209740 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGGCTGCCAAACTGGTGTGCGTCTTCTTGTTCGCTGCCTGCTGCTGCTGCTGCCGTGCCCGGGTG  
TGCCAGGAGAGGAAAAGCAGCCAGTACCCACGCCGACCTGGTGGAGGCAGAAAGTGGGCAGCACAGCCCT  
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CACAGTCAGTCTCACACCAGAGCCAACAGCACCTCCACAGAGAAAAAGCTGCCACAGCCAGAGAGCAAA  
GGTGTGGTCATCGTGGCTGTGATAGTGTGTACCTTGGTGTGCTGTGCTGGGTGCTGCTCTATTCTT  
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GAGTGAATTTGTAGTTGAAGTTAAGTCAGATAAGCTCCAGAAAGAGATGGCTCTCCTTCAGGGCAGCAAC  
GGTGACAAGAGGGCTCCAGGAGACCAGGGAGAGAAATACATCGATCTGAGGCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209740 protein sequence  
Red=Cloning site Green=Tags(s)

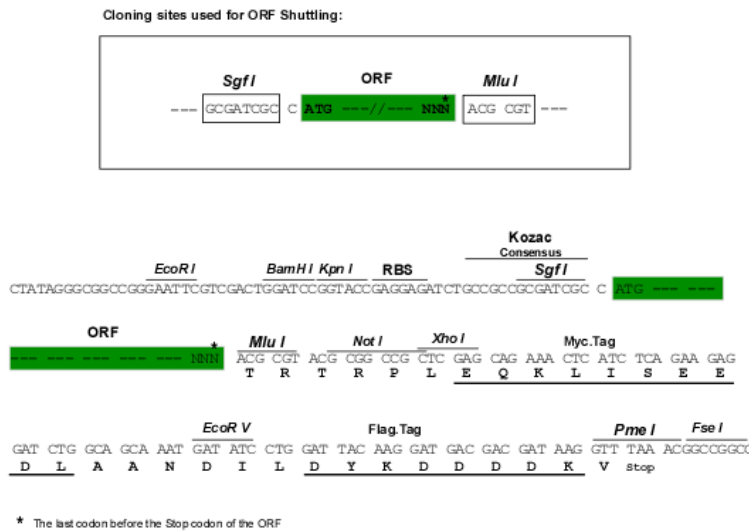
MGLPKLVCVFLFAACCCRRAGVPGEKQPVPPTDLVEAEVGSTALLKCGPSRASGNFSQVDWFLIHKE  
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 RTQLVSVGIFGSPWMALKERKVVWQENAVLNLSCEASGHPQPTISWNVNGSATEWNPDPQTVVSTLNLV  
 TPELLETGAECTASNLGSNTTIVLKLVTLLIPDSSQTTGLSTLTVSPHTRANSTSTEKKLPQPESEK  
 GVVIVAVIVCTLVAVLGAALYFFYKKGKLPGRSGKQEITLPPTRKSEFVVEVKSDKLPEEMALLQGSN  
 GDKRAPGDQGEKYIDLRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023061

**ORF Size:** 1947 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\\_023061.2](#)

**RefSeq Size:** 2892 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 84004

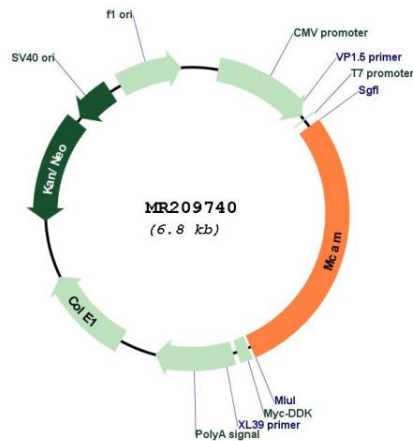
**UniProt ID:** [Q8R2Y2](#)

**Cytogenetics:** 9 A5.1

**MW:** 71.5 kDa

**Gene Summary:** Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209740