

## Product datasheet for **MG209740**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcam (NM_023061) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mcam
Synonyms:	1-gicerin; AV025631; CD146; CD149; Muc18; s-endo; s-gicerin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209740 representing NM\_023061  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTGCCAAACTGGTGTGCGTCTTCTTGTTCGCTGCCTGTGCTGTGCTGCTGCGCGTCCGCGGGTG  
 TGCCAGGAGAGGAAAAGCAGCCAGTACCCACGCCGACCTGGTGGAGGCAGAAAGTGGGCAGCACAGCCCT  
 TCTCAAGTGTGGCCCTCACGGGCTCAGGCAACTTCAGCCAAGTGGACTGGTTTTTATTACACAAGGAG  
 AGGCAGATACTGATTTTCCGTGTGCACCAAGGCAAGGGCCAGCGGGAACCTGGTGAATATGAGCACCGCC  
 TTAGCCTCCAAGACTCGGTGGCTACTCTGGCCCTGAGTCACGTCCTCCCATGATGAGCGAATGTTCTT  
 GTGTAAGAGCAAGCGACCACGGCTCCAGGATCACTACGTTGAGCTTCAGGTCTTCAAAGCCCCAGAGGAA  
 CCAACTATTCAAGCCAATGTCGTGGGCATCCATGTGGACAGGCAAGAGCTCAGGGAGGTTGCTACCTGTG  
 TGGGGAGAAACGGCTACCCATTCTCAAGTCTATGGTACAAGAACAGTCTGCCCTTCAAGAGGAGGA  
 GAACCGAGTTCATATCCAGTCATCACAGATTGTCGAGTCCAGTGGCTTGTACACCTTGAAGAGTGTCTG  
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 GGAACCACATGAAGGAATCTAAGGAGGTCACTGTCCTGTTTTCTACCCTGCAGAAAAAGTGGGTGGA  
 GGTAGAGCCTGTGGGGCTGCTGAAGGAAGGGGATCATGTGACAATCAGGTGTCTGACAGATGGCAACCCCT  
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 AATCCAAGTCCCCTGAAGTCCAGGAAGGTGAGAGCCTCACGCTGACCTGCGAGGCAGAAAGTACCAGG  
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 ACGCCAGAGCTTCTGGAGACAGGTGCAGAGTGTACAGCCTCCAACCTCCCTGGGCTCAAACACCACCACCA  
 TTGTTCTGAAGCTGGTCACTTTAAACCACCTCATACCTGACTCCAGCCAAACCACTGGCCTCAGCACCT  
 CACAGTCAGTCTCACACCAGAGCCAACAGCACCTCCACAGAGAAAAAGCTGCCACAGCCAGAGAGCAAA  
 GGTGTGGTCACTGGCTGTGATAGTGTGTACCTTGGTGTGCTGTGCTGGGTGCTGCTCTCTATTTCT  
 TCTACAAGAAGGCAAGCTGCCATGTGGAGCCTCGGGAAAACAGGAGATCACGCTGCCCCCGACTCGTAA  
 GAGTGAATTTGTAGTTGAAGTTAAGTCAGATAAGCTCCAGAAGAGATGGCTCTCCTTCAGGGCAGCAAC  
 GGTGACAAGAGGGCTCCAGGAGACCAGGGAGAGAAATACATCGATCTGAGGCAT

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209740 representing NM\_023061  
 Red=Cloning site Green=Tags(s)

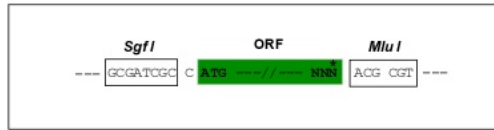
MGLPKLVCFVFLFAACCCRRRAAGVPGEEKQPVPPTDLVEAEVGSTALLKCGPSRASGNFSQVDWFLIHKE  
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 PTIQANVVGIVHVRQELREVATCVGRNGYPIQVLWYKNSLPLQEEENRVHIQSSQIVESSGLYTLKSVL  
 SARLVKEDKDAQFYCELSYRLPSGNHMKESKEVTVPVFYPAEKVWVEVEPVGLLKEGDHVTIRCLTDGNP  
 QPHFTINKKDPSTGEMEEESTDENGLLSLEPAEKHHHSLYQCQSLDLETTITLSSDPLELLVNYVSDVQV  
 NPATAPEVQEGESLTLTCEAESNDLEFEWLRDKTGQLLKGKPVQLNVRREAGGRYLCMASVPRVPLGN  
 RTQLVSVGIFGSPWMAKPKERKVVVQENAVLNLSCEASGHPQPTISWNVNGSATEWNPDPQTIVVSTLNVLV  
 TPELLETGAECTASNSLGSNTTIVLKLVTLLIPDSSQTTGLSTLTVSPHTRANSTSTEKKLPQPESK  
 GVVIVAVIVCTLVLAVLGAALYFFYKKGKGLPCGRSGKQIEITLPPTRKSEFVVEVKSDKLPPEEMALLQGSN  
 GDKRAPGDQGEKYIDLRH

**TRTRPLE** - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_023061

ORF Size: 1944 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: 2890 bp

RefSeq ORF: 1947 bp

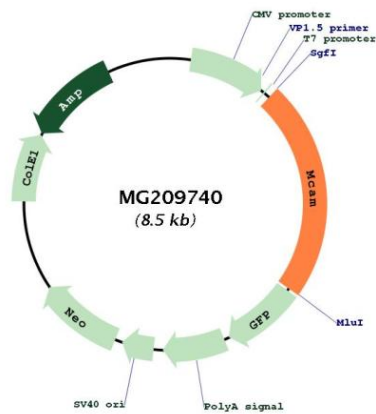
Locus ID: 84004

UniProt ID: [Q8R2Y2](#)

**Cytogenetics:** 9 A5.1

**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 MG209740