

## Product datasheet for **RR200300**

### **Mcam (NM\_023983) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcam (NM_023983) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcam
Synonyms:	CD146; Muc18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR200300 representing NM\_023983  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGGCTGCCAGGCTGGTCTGCGCCTTCTTATTCGCTGCCTGTGCTGTGTCGACGCGCCACGGGTG  
 TGCCAGGAGAGGAAAAGCAGCCACACCCACGCCGACCCGGTGGAGGTAGAAGTGGGCAACACGGCCCT  
 TCTGAAGTGTGGCCCCGCACATCCCTCAGGCAACTTCAGCCAAGTGAATGGTTTTTATTACACAAGGAG  
 AGGCAGATACCCATTTTCCGTGTGCACAGGGCAAGGGCCAGAGTGAACCTGGGAATATGAACACCGCC  
 TCAGCCTCCACGGCCAGGAGCTACTCTGGCCCTGAGTCAAGTCACTCCCATGATGATCGGATGTTCTT  
 GTGTAAGAGCAAGCAGCCACGGCCCGAGGATCACTATGTTCAAGTCTACAAGGCTCCAGAGGAG  
 CCAACTATCCAAGCCAACGTGCTGGGCATCCACGTGGACATAACAAGAGCTTAAGGAGGTTGCTACCTGTG  
 TGGGGAGGAATGGCTACCCATTCTCAAGTCATCTGGTACAAGAATGGCCGGCCCTTCAAGAGGAGGA  
 GAACCGCTTCATATCCAGTCGTACAGACCGTGGAGTCCAGTGGCTTGTACACCTTGAAGAGTGTCTA  
 AGTGCACGGCTAGTCAAGGAGGACAAAGATGCCAGTTTTACTGTGAACCTCAGTACCGGCTGCCAGTG  
 GGAACCGCATGAAGGAATCTAAGGAGGTCACTGTCCCTGTCTTATACCCTGCAGAAAAAGTGGGTGGA  
 GGTAGAACCCGTGGGACTGCTGAAGGAAGGGGACCATGTGAAGATCAGGTGTCTGACTGACGGCAACCCCT  
 CAACCCCACTTCACTATCAACAAGAAGAACCCAGCACTGAGGAGATGGAAGAGGAAAGCACCAGTAAA  
 ACGGTCTCCTGTCTTGGAGCCCGCCAGAAGCACCACAGTGGGGTCTACCAATGTCAGAGCCTAGACTT  
 GGAAACTACAGTTATGCTGTGAGTACCCCTGGAGTGTGGTGAACATGTGTCTGATGTTCAAGTG  
 GATCCAACCTGCCCTGAAGTCCAGGAAGGTGATAGCCTCACACTGACCTGTAAGGCAGAGAGTAACCAGG  
 ACCTTGAGTTTGAGTGGCTGAGAGACAAGACAGGCCAGCTTCTGGGAAAGGGGCCATCCTTCAGTAAA  
 CAACGTGAAAAGGAAGCAGGGGGAAGATATCTCTGTGTGGCATCTGTCCCAGCGTTCCCTGGCTTGAAT  
 CGCACACGGCGGGTACGCGTGGCATTCTTGGTCCCGTGGATGGCAGCAAAGGAGAGGAAGGTGTGGG  
 CGCAAGAGAATGCAATGCTGAATCTGTCTTGTGAGGCTTTCAGGCCATCCTCAGCCACCATCTCCTGGAA  
 TATCAATGGCTCGGCAACTGAATGGAACCCAGATCCTCAGACAGTAGTGAGCACCTTGAATGTCCTTGTG  
 ACCCCAGAGCTTCTGGAGACCGTGCAGAAATGTACAGCCTCCAACCTCCCTGGGCTCAAACACCACGGTCA  
 TCATTCTGAAGCTCGTCACTTTAACCACCCTCACACCTGACTCCAGCCAAACCACTGGCCTCAGCACCC  
 CACAGTCAGTCTCACAGCAGAGCCAACAGCACCTCCACAGAGAAAAAGCTGCCACAGCAGGAGAGCAAA  
 GGTGTGGTCATCGTGGCTGTGATAGTATGTACGCTGGTGTGCTGTACTGGGCGCTACCCTCTATTACT  
 TCTACAAGAAGGGCAAACCTGCTTGTGGAGCTCAGGAAAACAGGAGATCACGCTGCCCCCGACTCGTAA  
 GAGTGAATTTGTAGTTGAAGTTAAGTCAGATAAGCTCCAGAAAGAGATGGCTCTCCTTCAGGGCAGCAAC  
 GGTGACAAGAGGGCTCCAGGAGACCAGGGAGAGAAATACATCGATCTGAGGCATGGTGACAAGAGGGCTC  
 CAGGAGACCAGGGAGAGAAATACATCGATCTGAGGCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200300 representing NM\_023983  
Red=Cloning site Green=Tags(s)

MGLPRLVCAFLFAACCCRSATGVPGEKQPTPTDPVEVEVGNALLKCGPAHPSGNFSQVEWFLIHKE  
 RQIPIFRVHQGKGQSEPGEYEHRLSLHGPGATLALSQVTPHDDRMFLCKSKQPRPDHYVQLQVYKAPEE  
 PTIQANVLGIHVDIQELKEVATCVGRNGYPIQVIWYKNGRPLQEEENRVHIQSSQTVESSGLYTLKSVL  
 SARLVKEDKDAQFYCELSYRLPSGNRMKESKEVTPVLYPAEKVWVEVEPVGLLKEGDHVKIRCLTDGNP  
 QPHFTINKKNPSTEEMEEESTDENGLLSLEPAQKHSGVYQCQSLDLETTVMLSSDPLELLVNYVSDVQV  
 DPTAPEVQEGDSLTLTCKAESNQDLEFEWLRDKTGQLLKGPIQLNINVKREAGGRYLCVASVSPVGLN  
 RTRRVSVGIFGSPWMAAKERKVWAQENAMNLNSCEASGHPQPTISWNINGSATEWNPDPQTVVSTLNLV  
 TPELLETGAECTASNLGSNTTVIILKLVTLTTPDSSQTTGLSTPTVSPHSRANSTSTEKKLPQEQESK  
 GVVIVAVIVCTLVAVLGATLYFYKKGKLP CGRSGKQEITLPPTRKSEFVVEVKSDKLPEEMALLQGSN  
 GDKRAPGDQGEKYIDLRHGDKRAPGDQGEKYIDLRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023983

**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 Size:** 2933 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 78967

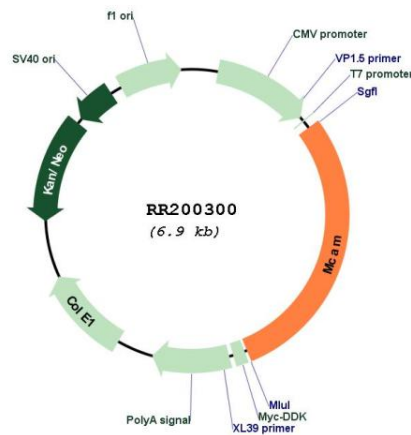
**UniProt ID:** [Q9EPF2](#)

**Cytogenetics:** 8q22

**MW:** 71.3 kDa

**Gene Summary:** may act as a cell adhesion molecule; may play a role in tumor growth and invasion [RGD, Feb 2006]

**Product images:**



Circular map for RR200300