

Product datasheet for **MR203412**

Madcam1 (BC024372) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Madcam1 (BC024372) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Madcam1
Synonyms: MGC35998
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203412 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAATCCATCCTGGCCCTCCTGCTGGCCCTGGCCCTAGTACCCTACCAGCTCAGCAGAGGACAGTCTCT
TCCAGGTGAACCCCTGAGTCTGAGGTAGCTGTGGCCATGGGCACATCCCTCCAGATCACCTGCAGCAT
GTCCTGTGACGAGGGTGTAGCCCGGTGACTGGCGTGGTCTGGACACCAGCTTGGCAGTGTACAGACC
CTCCCAGGCAGCAGTATCCTCTGTACGGGGCATGCTGTCAGACACAGGCACCTCTGTGTGTGGGCT
CCTGCGGGAGTCGAAGCTTCCAGCACTCCGTGAAGATCCTTGTGTATGCCTTCCCAGACCAGCTGGTGGT
GTCCCCGGAGTTCCTTGTACCTGGACAGGACCAGGTGGTGTCTGCACGGCCACAAACATCTGGCCTGCA
GACCCGAACAGTCTCTCCTTTGCCCTGCTACTGGGAGAGCAGAGACTGGAGGGTGCCCAAGCCCTGGAAC
CAGAGCAAGAAGAGGAGATACAAGAGGCTGAGGGCACACCACTGTTCCGAATGACACAACGCTGGCGGTT
ACCCTCCTGGGGACCCCTGCCCTCCTGCCCTTCACTGCCAGGTCAACATGCAGCTGCCAAAACGGTG
CTGACCCATAGAAAGGAGATTCCAGCCTCCACCGTCGTCCTATGGATTGGCAGCTTGGTGTGGGCTGC
TTGCACTGGTCTTCCTTGCTACCGCTGTGAAATGCTACCGGCCAGGTCTCGCCAGACACTAGCTC
ATGTACACACCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR203412 protein sequence
Red=Cloning site Green=Tags(s)

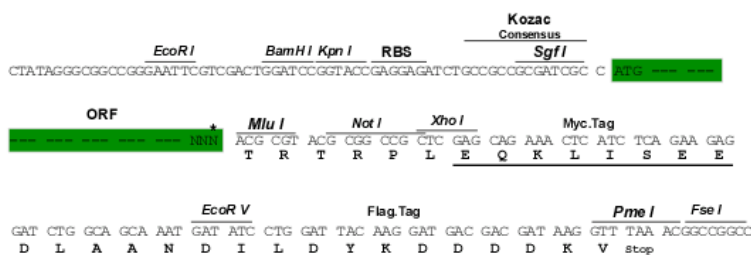
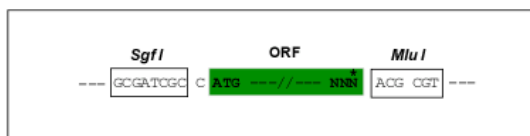
MESILALLLALALVPYQLSRGQSFQVNPPESEVAVAMGTSLQITCSMSCDEGVARVHWRGLDLSLGSVQT
 LPGSSILSVRGMLSDTGPVCGVSCGSRSFQHSVKILVYAFPDQLVVSPEFLVPGDQVVSCTAHNIWPA
 DPNSLSFALLLGEQRLEGAQALEPEQEEIQAEGTPLFRMTQRWRLPSLGTAPPALHCQVTMQLPKLV
 LTHRKEIPASTVVLWIGSLVLGLLALVFLAYRLWKCYPGPRPDTSSCTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC024372

ORF Size: 783 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: [BC024372](#), [AAH24372](#)

RefSeq Size: 1004 bp

RefSeq ORF: 785 bp

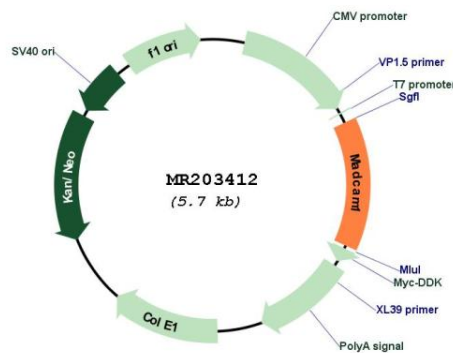
Locus ID: 17123

Cytogenetics: 10 39.72 cM

MW: 28.4 kDa

Gene Summary: Cell adhesion leukocyte receptor expressed by mucosal venules, helps to direct lymphocyte traffic into mucosal tissues including the Peyer patches and the intestinal lamina propria. It can bind both the integrin alpha-4/beta-7 and L-selectin, regulating both the passage and retention of leukocytes. Both isoform 1 and isoform 2 can adhere to integrin alpha-4/beta-7. Isoform 2, lacking the mucin-like domain, may be specialized in supporting integrin alpha-4/beta-7-dependent adhesion strengthening, independent of L-selectin binding. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203412