

## Product datasheet for **MG203412**

### Madcam1 (BC024372) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Madcam1 (BC024372) Mouse Tagged ORF Clone  
Tag: TurboGFP  
Symbol: Madcam1  
Synonyms: MGC35998  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >MG203412 representing BC024372  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCCATCCTGGCCCTCCTGCTGGCCCTGGCCCTAGTACCCTACCAGCTCAGCAGAGGACAGTCTCT  
TCCAGGTGAACCCCTGAGTCTGAGGTAGCTGTGGCCATGGGCACATCCCTCCAGATCACCTGCAGCAT  
GTCCTGTGACGAGGGTGTAGCCCGGTGACTGGCGTGGTCTGGACACCAGCTTGGGCAGTGTACAGACC  
CTCCCAGGCAGCAGTATCCTCTCTGTACGGGGCATGCTGTCAGACACAGGCACCTCTGTGTGTGGGCT  
CCTGCGGGAGTCGAAGCTTCCAGCACTCCGTGAAGATCCTTGTGTATGCCTTCCCAGACCAGCTGGTGGT  
GTCCCCGGAGTTCCTTGTACCTGGACAGGACCAGGTGGTGTCTGCACGGCCACAAACATCTGGCCCTGCA  
GACCCGAACAGTCTCTCCTTTGCCCTGCTACTGGGAGAGCAGAGACTGGAGGGTGCCCAAGCCCTGGAAC  
CAGAGCAAGAAGAGGAGATACAAGAGGCTGAGGGCACACCACTGTTCCGAATGACACAACGCTGGCGGTT  
ACCCTCCTGGGGACCCCTGCCCTCCTGCCCTTCACTGCCAGGTCAACATGCAGCTGCCAAAACCTGGTG  
CTGACCCATAGAAAGGAGATTCCAGCCTCCACCGTCGTCCTATGGATTGGCAGCTTGGTGTGGGCTGC  
TTGCACTGGTCTTCCTTGCTACCGCCTGTGAAATGCTACCGGCCAGGTCTCGCCAGACACTAGCTC  
ATGTACACACCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203412 representing BC024372  
 Red=Cloning site Green=Tags(s)

MESILALLLALALVPYQLSRGQSFQVNPPESEVAVAMGTSLQITCSMSCDEGVARVHWRGLDLSLGSVQT  
 LPGSSILSVRGMLSDTGPVCGVSCGSRSFQHSVKILVYAFDQLVVSPEFLVPGDQVVSCTAHNIWPA  
 DPNSLSFALLLGEQRLEGAQALEPEQEEIQAEGTPLFRMTQRWRLPSLGTAPPALHCQVTMQLPKLV  
 LTHRKEIPASTVVLWIGSLVLGLLALVFLAYRLWKCYRPGPRPDTSSCTHL

TRTRPLE - GFP Tag - V

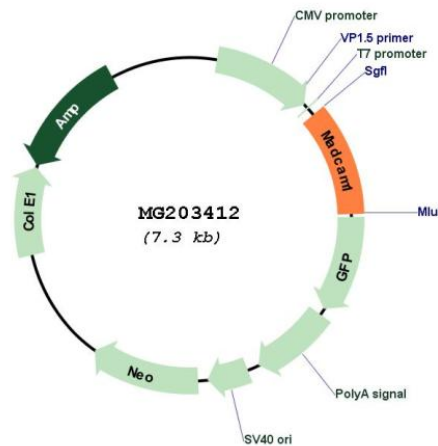
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC024372

**ORF Size:** 785 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC024372</a> , <a href="#">AAH24372</a>
<b>RefSeq Size:</b>	1004 bp
<b>RefSeq ORF:</b>	785 bp
<b>Locus ID:</b>	17123
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	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]