

## Product datasheet for **MG226268**

### Madcam1 (NM\_013591) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Madcam1 (NM_013591) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Madcam1
Synonyms:	AV211525; MAdCAM-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226268 representing NM_013591 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCCATCCTGGCCCTCTGCTGGCCCTGGCCCTAGTACCCTACCAGCTCAGCAGAGGACAGTCTCTCCAGGTGAACCCCTGAGTCTGAGGTAGCTGTGGCCATGGGCACATCCCTCCAGATCACCTGCAGCATGTCCTGTGACGAGGGTGTAGCCCGGTGACTGGCGTGGTCTGGACACCAGCTTGGGCAGTGTACAGACCTCCCAGGCAGCAGTATCCTCTCTGTACGGGGCATGCTGTGACACACAGGCACCTCTGTGTGTGGGCTCCTGCGGGAGTCGAAGCTTCCAGCACTCCGTGAAGATCCTTGTGTATGCCTTCCCAGACCAGCTGGTGGTGTCCCCCGAGTTCCTTGTACCTGGACAGGACCAGGTGGTGTCTGCACGGCCACAAACATCTGGCCCTGCA GACCCGAACAGTCTCTCCTTTGCCCTGCTACTGGGAGAGCAGAGACTGGAGGGTGCCCAAGCCCTGGAAC CAGAGCAAGAAGAGGAGATACAAGAGGCTGAGGGCACACCACTGTTCCGAATGACACAACGCTGGCGGTT ACCCTCCCTGGGGACCCCTGCCCTCCTGCCCTTCACTGCCAGGTCAACATGCAGCTGCCAAAACCTGGTG CTGACCCATAGAAAGGAGATTCCAGTACTACAGAGCCAGACCTCACCTAAGCCCCAACACGACCTCTG CTGAGCCCTACATCCTGACCTCATCAAGTACTGCTGAGGCAGTCTCCACTGGGCTCAACATCACCACT ACCTTCTGCCCTCCATACCCCAAGCTTAGCCCTAGGACTCTGAGCTCTGAGGGACCTTGCCGCCGAAA ATCCACCAGGACCTGGAGCAGGCTGGGAGTACTCTGTGAAGCATCCTGTGGCCCGGAGTTACTGTGTC GCTGGACCTTGGCTCCTGGCGACCTGGCAACCTACCACAAGAGGGAGGCTGGGGCCAGGCATGGCTAAG CGTGCTGCCCCAGGTCCCATGGTAGAGGGCTGGTTCCAGTGCCGCCAGGACCCTGGCGGCAGGTGACC AATCTGTATGTTCTGGCCAGGTGACCCGAATTCCTCCTCCACCGTCGTCTATGGATTGGCAGCTTGG TGCTGGGGCTGCTGCACTGGTCTTCTTGCTACCGCTGTGGAATGCTACCGCCAGGTCTCGCCC AGACACTAGTTCATGTACACACCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226268 representing NM\_013591  
 Red=Cloning site Green=Tags(s)

MESILALLLALALVPYQLSRGQSFQVNPPESEVAVAMGTSLQITCSMSCDEGVARVHWRGLDTSLGVSQT  
 LPGSSILSVRGM L S D T G T P V C V G S C G S R S F Q H S V K I L V Y A F P D Q L V V S P E F L V P G Q D Q V V S C T A H N I W P A  
 D P N S L S F A L L L G E Q R L E G A Q A L E P E Q E E E I Q E A E G T P L F R M T Q R W R L P S L G T P A P P A L H C Q V T M Q L P K L V  
 L T H R K E I P V L Q S Q T S P K P P N T T S A E P Y I L T S S S T A E A V S T G L N I T T L P S A P P Y P K L S P R T L S S E G P C R P K  
 I H Q D L E A G W E L L C E A S C G P G V T V R W T L A P G D L A T Y H K R E A G A Q A W L S V L P P G P M V E G W F Q C R Q D P G G Q V T  
 N L Y V P G Q V T P N S S T V V L W I G S L V L G L L A L V F L A Y R L W K C Y R P G P R P D T S S C T H L

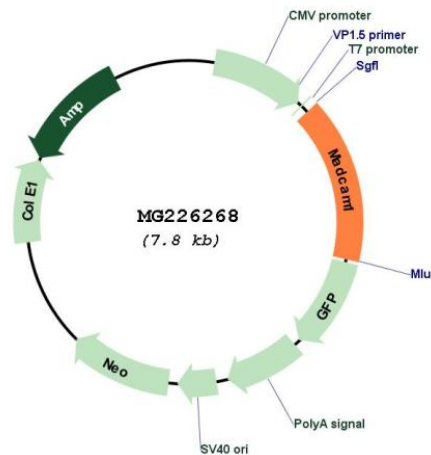
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_013591

<b>ORF Size:</b>	1215 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="#">NM_013591.3</a>
<b>RefSeq Size:</b>	1420 bp
<b>RefSeq ORF:</b>	1218 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]