

Product datasheet for **RG212381**

MADCAM1 (NM_130762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MADCAM1 (NM_130762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MADCAM1
Synonyms:	MACAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212381 representing NM_130762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATTCGGACTGGCCCTCTGCTGGCGGGGCTTCTGGGGCTCCTCCTCGGCCAGTCCCTCCAGGTGA
AGCCCCGCAGGTGGAGCCCCGGAGCCGGTGGTGGCCGTGGCCTTGGGCGCCTCGCGCCAGCTCACCTG
CCGCCTGGCCTGCGCGGACCGCGGGGCTCGGTGCAGTGGCGGGGCTGGACACCAGCCTGGGCGCGGTG
CAGTCGGACACGGGCCGAGCGTCTCACCGTGCACAACGCTCGCTGTGCGGCGCCGGGACCCGCGTGT
GCGTGGGCTCCTGCGGGGCGCACCTTCCAGCACACCGTGCAGTCTCTGTGTACGCCTTCCCGGACCA
GCTGACCGTCTCCCCGGCAGCCCTGGTGCCTGGTGACCCGGAGGTGGCCTGTACGGCCACAAAAGTCAGG
CCCGTGGACCCCAACGCGCTCTCCTTCTCCCTGCTCGTGGGGGGCCAGGAAGTGGAGGGGGCGCAAGCCC
TGGGCCCGGAGGTGCAGGAGGAGGAGGAGGCCCCAGGGGGACGAGGACGTGCTGTTTCAGGGTGACAGA
GCGCTGGCGGCTGCCGCCCTGGGGACCCCTGTCCCGCCCGCCCTCTACTGCCAGGCCACGATGAGGCTG
CCTGGCTTGGAGCTCAGCCACCGCCAGGCCATCCCCGCGTCCAAACCTGCGGGTGACCAGCTGCCCGCG
CTCTGTGGACCAGCAGTGCAGTGGGACTGTGCTCCTGGCCTTGCCACCTATCACCTCTGAAACG
CTGCCGGCACCTGGCTGAGGACGACACCCACCCACCGGCTTCTCTGAGGTTCTGCCACAGTGTGCGCC
TGGGCTGGGTTAAGGGGGACCGCCAGGTGCGGATCAGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212381 representing NM_130762
Red=Cloning site Green=Tags(s)

MDFGLALLLAGLLGLLLGQSLQVKPLQVEPPEPVVAVALGASRQLTCRLACADRGASVQWRGLDTSLGAV
 QSDTGRSVLTVRNASLSAAGTRVCVGCGRRTFQHTVQLLVYAFPDQLTVSPAALVPGDPEVACTAHKVT
 PVDPNALSFLLVGGQELEGAQALGPEVQEEEEEPQGEDVDLFRVTERWRLPPLGTPVPPALYCQATMRL
 PGLELSHRQAIPASKPAGDQLPAALWTSSAVLGLLLLALPTYHLWKRCRHLAEDDTHPPASLRLLPQVSA
 WAGLRGTGQVGI SPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130762

ORF Size: 885 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_130762.3](#)

RefSeq Size: 1285 bp

RefSeq ORF: 888 bp

Locus ID: 8174

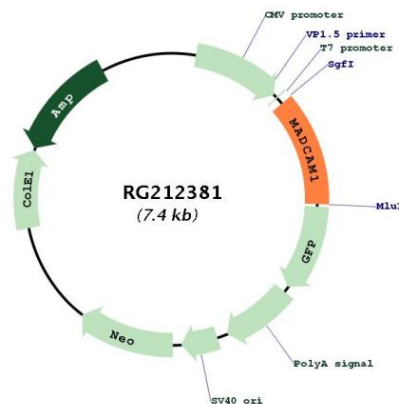
UniProt ID: [Q13477](#)

Cytogenetics: 19p13.3

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: The protein encoded by this gene is an endothelial cell adhesion molecule that interacts preferentially with the leukocyte beta7 integrin LPAM-1 (alpha4beta7), L-selectin, and VLA-4 (alpha4beta1) on myeloid cells to direct leukocytes into mucosal and inflamed tissues. It is a member of the immunoglobulin family and is similar to ICAM1 and VCAM1. At least seven alternatively spliced transcripts encoding different protein isoforms have been found for this gene, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG212381