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Product datasheet for SC305895

MADCAM1 (NM_130761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MADCAM1 (NM_130761) Human Untagged Clone
Tag:	Tag Free
Symbol:	MADCAM1
Synonyms:	MACAM1; mucosal addressin cell adhesion molecule-1; mucosal vascular addressin cell adhesion molecule 1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF sequence for NM_130761 edited
GGCGGCCGCGAATTCATGGATTTCGGACTGGCCCTCCTGCTGGCGGGGCTTCTGGGGCTC
CTCCTCGGCCAGTCCCTCCAGGTGAAGCCCCTGCAGGTGGAGCCCCCGGAGCCGGTGGTG
GCCGTGGCCTTGGGCGCCTCGCGCCAGCTCACCTGCCGCCTGGCCTGCGCGGACCGCGGG
GCCTCGGTGCAGTGGCGGGGCCTGGACACCAGCCTGGGCGCGGTGCAGTCGGACACGGGC
CGCAGCGTCCTCACCGTGCGCAACGCCTCGCTGTCGGCGGCCGGGACCCGCGTGTGCGTG
GGCTCCTGCGGGGGCCGCACCTTCCAGCACACCGTGCAGCTCCTTGTGTACGCCTTCCCG
GACCAGCTGACCGTCTCCCCRGCAGCCCTGGTGCCTGGTGACCCGGAGGTGGCCTGTACG
GCCCACAAAGTCACGCCCGTGGACCCCAACGCGCTCTCCTTCTCCCTGCTCGTCGGGGGC
CAGGAACTGGAGGGGGCGCAAGCCCTGGGCCCGGAGGTGCAGGAGGAGGAGGAGGAGCCC
CAGGGGGACGAGGACGTGCTGTTCAGGGTGACAGAGCGCTGGCGGCTGCCGCCCCTGGGG
ACCCCTGTCCCGCCCGCCCTCTACTGCCAGGCCACGATGAGGCTGCCTGGCTTGGAGCTC
AGCCACCGCCAGGCCATCCCCGTCCTGCACAGCCCGACCTCCCCGGAGCCTCCCAACACC
ACCTCCCCGGAGCCTCCCAACACCACCTCCCCGGAGTCTCCCGACACCACCTCCCCGGAG
TCTCCCGACACCACCTCCCAGGAGCCTCCCGACACCACCTCCCAGGAGCCTCCCGACACC
ACCTCCCAGGAGCCTCCCGACACCACCTCCCCGGAGCCTCCCGACAAGACCTCCCCGGAG
CCCGCCCCCCAGCAGGGCTCCACACACACCCCCAGGAGCCCAGGCTCCACCAGGACTCGC
CGCCCTGAGATCTCCCAGGCTGGGCCCACGCAGGGAGAAGTGATCCCAACAGGCTCGTCC
AAACCTGCGGGTGACCAGCTGCCCGCGGCTCTGTGGACCAGCAGTGCGGTGCTGGGACTG
CTGCTCCTGGCCTTGCCCACCTATCACCTCTGGAAACGCTGCCGGCACCTGGCTGAGGAC
GACACCCACCCACCGGCTTCTCTGAGGCTTCTGCCCCAGGTGTCGGCCTGGGCTGGGTTA
AGGGGGACCGGCCAGGTCGGGATCAGCCCCTCCTGAGTGGCCAGCCTTTCCCCCTGTGAA
AGCAAAATAGCTTGGACCCCTTCAAGTTGAGAACTGGTCAGGGCAAACCTGCCTCCCATT
CTACTCAAAGTCATCCCTCTGCTCACAGAGATGGATGCATGTTCTGATTGCCTCTTTGGA
GAAGCTCATCAGAAACTCAAAAGAAGGCCACTGTTTGTCTCACCTACCCATGACCTGAAG
CCCCTCCCTGAGTGGTCCCCACCTTTCTGGACGGAACCACGTACTTTTTACATACATTGA
TTCATGTCTCACGTCTCCCTAAAAATGCGTAAGACCAAGCTGTGCCCTGACCACCCTGGG
CCCCTGTCGTCAGGACCTCCTGAGGCTTTGGCAAATAAACCTCCTAAAATGATAAAAAAA
AAAAAAAAAAAACT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_130761 unedited
NAAGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGATTCTGGNTTTCGGACTGGCC
CTCCTGCTGGCGGGGCTTCTGGGGCTCCTCCTCGGCCAGTCCCTCCAGGTGAAGCCCCTG
CAGGTGGAGCCCCCGGAGCCGGTGGTGGCCGTGGCCTTGGGCGCCTCGCGCCAGCTCACC
TGCCGCCTGGCCTGCGCGGACCGCGGGGCCTCGGTGCAGTGGCGGGGCCTGGACACCAGC
CTGGGCGCGGTGCAGTCGGACACGGGCCGCAGCGTCCTCACCGTGCGCAACGCCTCGCTG
TCGGCGGCCGGGACCCGCGTGTGCGTGGGCTCCTGCGGGGGCCGCACCTTCCAGCACACC
GTGCAGCTCCTTGTGTACGCCTTCCCGGACCAGCTGACCGTCTCCCCGGCAGCCCTGGTG
CCTGGTGACCCGGAGGTGGCCTGTACGGCCCACAAAGTCACGCCCGTGGACCCCAACGCG
CTCTCCTTCTCCCTGCTCGTCGGGGGCCAGGAACTGGAGGGGGCGCAAGCCCTGNGCCCG
GAGGTGCAGGAGGAGGAGGAGGAGCCCCAGGGGGACGAGGACGTGCTGTTCAGGGTGACA
GAGCGCTGGCGGCTGCCGCCCCTGGGGACCCCTGTCCCGCCCGCCCTCTACTGCCAGGCC
ACGATGAGGCTGCCTGGCTTGGAGCTCAGCCACCGCCAGGCCATCCCCGTCCTGCACAGC
CCGACCTCCCCGGAGCCTCCCAACACCACCTCCCCGGAGCCTCCCAACACCACCTCCCCG
GAGTCTCCCGACACCACCCTCCCGGGATCTCCCGACACCACCTCCCAGGACCCTCCCGAC
CCACCTCCAAGGAGCCTCCCGACACAACTCCCAGGAACCTCCCGAAACAACTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_130761 unedited
CTANGATCGAGTTTTTTTTTTTTTTTTTTATCATTTTAGGAGGTTTATTTGCCAAAGCC
TCAGGAGGTCCTGACGACAGGGGCCCAGGGTGGTCAGGGCACAGCTTGGTCTTACGCATT
TTTAGGGAGACGTGAGACATGAATCAATGTATGTAAAAAGTACGTGGTTCCGTCCAGAAA
GGTGGGGACCACTCAGGGAGGGGCTTCAGGTCATGGGTAGGTGAGACAAACAGTGGCCTT
CTTTTGAGTTTCTGATGAGCTTCTCCAAAGAGGCAATCAGAACATGCATCCATCTCTGTG
AGCAGAGGGATGACTTTGAGTAGAATGGGAGGCAGGTTTGCCCTGACCAGTTCTCAACTT
GAAGGGGTCCAAGCTATTTTGCTTTCACAGGGGGAAAGGCTGGCCACTCAGGAGGGGCTG
ATCCCGACCTGGCCGGTCCCCCTTAACCCAGCCCAGGCCGACACCTGGGGCAGAAGCCTC
AGAGAAGCCGGTGGGTGGGTGTCGTCCTCAGCCAGGTGCCGGCAGCGTTTCCAGAGGTGA
TAGGTGGGCAAGGCCAGGAGCAGCAGTCCCAGCACCGCACTGCTGGTCCACAGAGCCGCG
GGCAGCTGGTCACCCGCAGGTTTGGACGAGCCTGTTGGGATCACTTCTCCCTGCGTGGGC
CCAGCCTGGGAGATCTCAGGGCGGCGAGTCCTGGTGGAGCCTGNGCTCCTGGGGGTGTGG
TGTTGGAGCCCTGCTGGGGGGGCGGCTCCGGGGAGGTCTTGTCGGGAGGCTCCCGGGAGG
TGGTGTCCGGNGCCTCCTGGAGGTGGTGTCCCGNGGCCTCCGGGAGTGGTGCCCGNGGCC
TCCGGGGGTGGCGCCGGGAAACCCGGGGAGGGGTTG

Restriction Sites: Please inquire

ACCN: NM_130761

Insert Size: 1700 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_130761.1, NP_570117.1

RefSeq Size: 1608 bp

RefSeq ORF: 1608 bp

Locus ID: 8174

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]
Transcript Variant: This variant (1) is the longest, predominant transcript and encodes the full-length isoform (a).