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Product datasheet for MR206378

Vmp1 (NM_029478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vmp1 (NM_029478) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vmp1
Synonyms:	3110098I04Rik; 4930579A11Rik; AI787464; mir-21a; ni-2; Tango5; Tmem49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206378 representing NM_029478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGCATAGCAATGAGTAAGGATCAGCACAATGGAAGTC
TCACAGACCCCTCTTCAGTTCATGAGAAGAAGAGAAGGGATCGGGAAGAAAGACAGAATATTGTCCTGTG
GAGACAGCCACTCATTACCTTGCAGTATTTCTCTCTGGAAACTCTTGTAGTTTTGAAGGAATGGACCTCA
AAATTGTGGCATCGTCAAAGCATTGTGGTGTCCTTTTTACTGCTGCTTGCTGCGCTTGTAGCTACGTATT
ATGTGGAAGGAGCGCACCAACAGTATGTGCAGCGGATAGAGAAGCAGTTTCTTTTGTATGCATACTGGAT
AGGCCTGGGGATTTTGTCCTCTGTTGGTCTTGGAACAGGACTGCACACCTTTCTGCTTTATCTGGGCCCA
CATATAGCTTCAGTTACATTAGCTGCTTATGAATGCAATTCGGTGAATTTCCCTGAGCCACCCTATCCTG
ACCAGATTATCTGCCCAGAGGAAGAAGGCGCTGAGGGAGCCATTTCTTTGTGGAGTATCATCTCAAAAGT
TAGAATTGAAGCCTGCATGTGGGGCATTGGAACAGCCATTGGAGAGCTGCCTCCATATTTCATGGCCAGG
GCAGCTCGCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAAATGCTGGAACATG
CAGAGGCTGCACAAGACTTTGCATCACGGGCTAAACTGGCAGTTCAAAAACTAGTACAGAAAGTTGGATT
TTTTGGAATTTTGGCCTGTGCTTCTATTCCAAACCCCCTGTTTGACCTGGCTGGAATAACGTGTGGGCAC
TTCCTTGTACCTTTCTGGACCTTCTTTGGTGCAACCCTGATTGGGAAAGCAATCATTAAAATGCATATCC
AGAAAATATTTGTTATAGTAACTTTCAGCAAGCACATCGTGGAGCAGATGGTGACTTTCATTGGTGCTGT
CCCCGGCATAGGTCCGTCTCTGCAGAAGCCTTTTCAAGAGTACCTGGAGGCGCAGCGGCAGAAGCTTCAT
CACAGAAGTGAAGCGGGCACACCGCAGGGAGAAAACTGGTTATCCTGGATGTTTGAGAAGCTGGTGGTTG
CAATGGTGTGTTACTTTGTCCTGTCTATTATTAACTCCATGGCACAAAACTATGCCAAACGAATCCAGCA
GCGCTTGAACTCAGAGGAGAAAACTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR206378 representing NM_029478
Red=Cloning site Green=Tags(s)

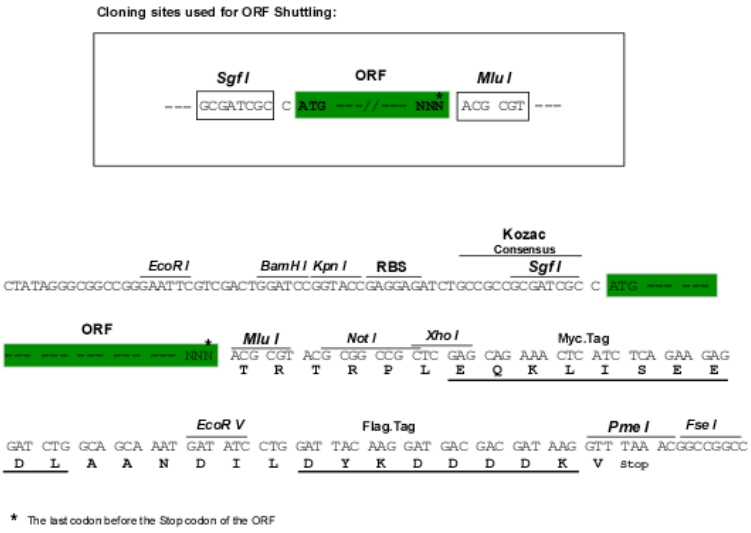
MAENGKNCDQRRIAMSKDQHNGSLTDPSSVHEKKRRDREERQNIVLWRQPLITLQYFSLETLVVLKEWTS
KLWHRQSIVVSFLLLLAALVATYYVEGAHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGP
HIASVTLAAYECNSVNFPEPPYPDQIICPEEEGAEGAISLWSIISKVRIEACMWGIGTAIGELPPYFMAR
AARLSGAEPDDEEYQEFEEMLEHAEAAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGH
FLVPFWTFFGATLIGKAIIKMHIQKIFVIVTFSKHIVEQMVTFIGAVPGIGPSLQKPFQEYLEAQRQKLH
HRSEAGTPQGENWLSWMFEKLVVAMVCYFVLSIINSMAQNYAKRIQQRLNSEEKTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029478

ORF Size: 1218 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_029478.6

RefSeq Size: 2773 bp

RefSeq ORF: 1221 bp

Locus ID: 75909

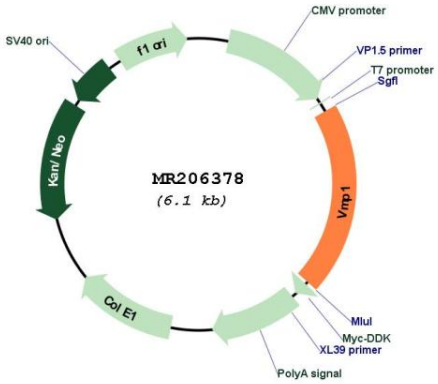
UniProt ID: Q99KU0

Cytogenetics: 11 C

MW: 46.4 kDa

Gene Summary: Stress-induced protein that, when overexpressed, promotes formation of intracellular vacuoles followed by cell death (By similarity). May be involved in the cytoplasmic vacuolization of acinar cells during the early stage of acute pancreatitis (PubMed:17940279). Involved in cell-cell adhesion. Plays an essential role in formation of cell junctions. Plays a role in the initial stages of the autophagic process through its interaction with BECN1. Required for autophagosome formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206378