

## Product datasheet for **MR206983**

### Plvap (NM\_032398) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plvap (NM_032398) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plvap
Synonyms:	MECA32; Pv1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206983 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCTCTCCATGGACCGCAGCCCATACGCCCGCACGGGGACCAGCAGCGCGGCTGCTGGTACTACC  
 TGGCCTATTTCTTCTCTTCGTGTGCTCATTCAAGTTCCTCATCATCCTGGGCCTGGTCCTTTCATGAT  
 CTATGGCAATGTGCACGCCACCACTGAGTCCAGCCTGCGCGCCACGGAGATCCGCGCCGACAGCCTGTAC  
 AGCCAGGTGGTTGACTATCGGCCTCACAGGCTAACCTGAGCAAACAGCTGAACATCAGCTTGTGTGCA  
 AGGAAACAGTCATGCAGCAACTGTTGACTACGCGACGTGAGATGGAGCGCATCAACGCCAGCTTCCGCCA  
 GTGCCAAGGCGACCTGATCACCTACATAAACTATAATCGCTTCATCGCCGCTATCATCCTGAGCGAGAAG  
 CAGTGCCAGGAACAGCTGAAGGAGGTCAACAAGACCTGCGAAGCTTTACTCTTCAAGCTGGGAGAAAAAG  
 TTAAGACTGGAGATGGAGGTGGCCAAGGAGAAGGCAGTGTGCTCAAGGACAAGGAGAGCCTGCTGGC  
 AGGAAAGCGGCAGACGGAAGAGCAGCTGGAGGCTGTGGCAAAGCACGCGAAAGGCAACAGCAGGAGCAG  
 CAGGTGACCGAGGAGAACCTGCGCAAGGTGCAGTCCCTGTGCATCCCACTGGACCAGGAGAAGTTCCAGG  
 CGGACGTGCTGAGTGCCTGGCGGACTCGCTGATCTACCGTACCTTGGAAACCTGCCCTACCACTACCA  
 GCTGATGCCGGAGTACGCGTCCCTCCGTGCGACCTGCGAGAGCCTGCCCGGGATCATGACCACCAAGATA  
 GAAGAGCTGGCCCGGGCTGCGCGCCGGCATTGAGCGCGTGACCCGTGAGAATGCAGAAGTGGCGCGCC  
 AGAAGTTGGAGCTAGAGCGCGCGGCACAGGCGGCGCAGGAGGCGCGGGCGCGCCGGGACCGAGGCGCA  
 GCGCGAGAAACCCAGCTACGGGCGGAGTGCAGCGCCAGACGCGAGCTGGCTCTGGAGGAGAAGGCGGCG  
 CTGCGCGCGCAGCGGGACAACCTAGAGCGGAGCTGGAGGCGCGTAAGCGGGAGCTGGAGCAACTGCGCA  
 CCGAGGTGGATGTGCGCATTAGCGCGCTGGACACCTGCGTCAAGGCCAAGTCGCTGCCAGCCGTCGCGCC  
 GAGAGTCTCAGGCCACCCCGAACCTCCACCCATTGATCCAGCTAGCCTGGAGGAATCAAGAAAAAGG  
 ATCCTGGAGTCTCAGCGCTCCCTGTAGTCAACCTGCTGCCAACCCAGCGGT

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206983 protein sequence  
 Red=Cloning site Green=Tags(s)

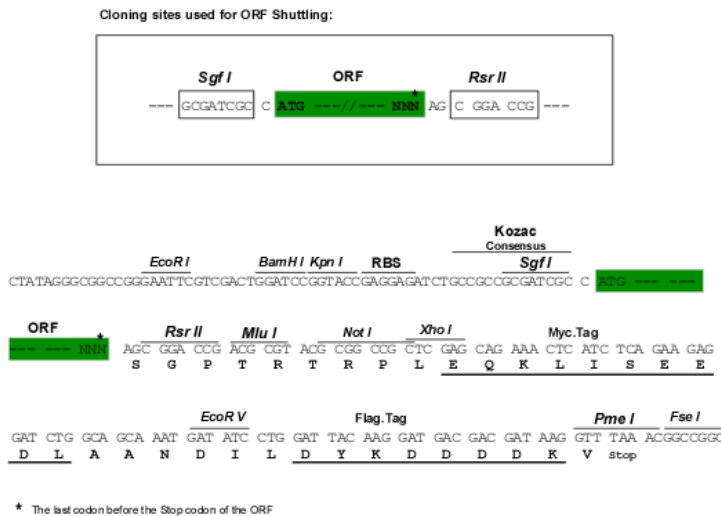
MGLSMDRSPYARTGDQQRGCWYLYRYFFLVSLIQFLIILGLVLFMIYGNVHATTESSLRATEIRADSLY  
 SQVVGLSASQANLSKQLNISLLVKETVMQQLLTTRREMERINASFRQCQGLITYINYNRFIAAIIILSEK  
 QCQEQLKEVNKTCEALLFKLGEKVKTLEMEVAKEKAVCSKDKESSLAGKRQTEEQLEACGKARERQQEQ  
 QVTEENLRKVQSLCIPLDQEFQADVLSAWRDSLIRYRTLETLPYHYQLMPEYASLRRTCESLPGIMTTKI  
 EELARGLRAGIERVTRENAELRRQKLELERAQAQAQEARARAGTEAQARETQLRAECARQTQLALEEKAA  
 LRAQRDNLERELEARKRELEQLRTEVDVRI SALDTCVKAKSLPAVPPRVSGPPNPPPIIDPASLEEFKRR  
 ILESQRLPVVNPAAQPSG

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_032398

**ORF Size:** 1317 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

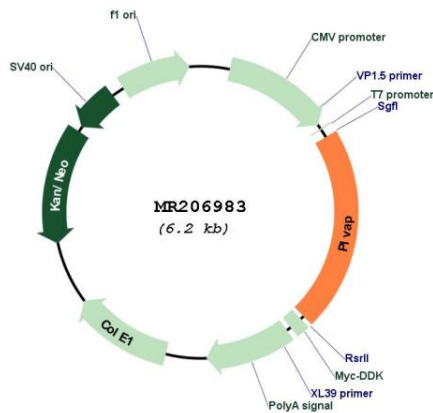
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_032398.1](#), [NM\\_032398.2](#), [NP\\_115774.1](#), [NP\\_115774.2](#)

RefSeq Size: 2033 bp  
 RefSeq ORF: 1317 bp  
 Locus ID: 84094  
 UniProt ID: [Q91VC4](#)  
 Cytogenetics: 8 34.43 cM  
 MW: 49.9 kDa

**Gene Summary:** Endothelial cell-specific membrane protein involved in the formation of the diaphragms that bridge endothelial fenestrae. It is also required for the formation of stomata of caveolae and transendothelial channels. Functions in microvascular permeability, endothelial fenestrae contributing to the passage of water and solutes and regulating transcellular versus paracellular flow in different organs. Plays a specific role in embryonic development. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206983