

## Product datasheet for **RC202867**

### PMVK (NM\_006556) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PMVK (NM\_006556) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PMVK  
**Synonyms:** HUMPMKI; PMK; PMKA; PMKASE; POROK1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC202867 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCTGGGAGGCGCCCCGGCTGGTACTGCTGTTCAGCGGCAAGAGGAAATCCGGAAGGACT  
TCGTGACCGAGGCGCTGCAGAGCAGACTTGGAGCTGATGTCTGTGCTGTCTCCGGCTCTCTGGTCCACT  
CAAGGAACAGTATGCTCAGGAGCATGGCTTGAACCTCCAGAGACTCCTGGACACCAGCACCTACAAGGAG  
GCCTTTCGGAAGGACATGATCCGCTGGGAGAGGAGAAACGCCAGGCTGACCCAGGCTTCTTTTGCAGGA  
AGATTGTGGAGGGCATCTCCAGCCCATCTGGCTGGTGTGAGTGACACACGGAGAGTGTCTGACATCCAGTG  
GTTTCGGGAGGCCTATGGGGCCGTGACGCAGACGGTCCGCGTTGTAGCGTTGGAGCAGAGCCGACAGCAG  
CGGGGCTGGGTGTTACGCCAGGGGTGGACGATGCTGAGTCAGAAATGTGGCTGGACAACTTCGGGGACT  
TTGACTGGGTCATCGAAACCATGGAGTTGAACAGCGCCTGGAGGAGCAGTTGGAGAACCTGATAGAATT  
TATCCGCTCCAGACTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202867 protein sequence  
**Red=Cloning site Green=Tags(s)**

MAPLGGAPRLVLLFSGKRKSGKDFVTEALQSR LGADVCAVLR LSGPLKEQYAEHGLNFQRLLDTSTYKE  
AFRKDMIRWGEEKRQADPGFFCRKIVEGISQPIWL VSDTRRVSDIQWFREAYGAVTQTVRVVALEQSRQQ  
RGWVFTPGVDDAESECGLDNFGDFDWIENHGVEQRLEEQLLENLIEFIRSRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

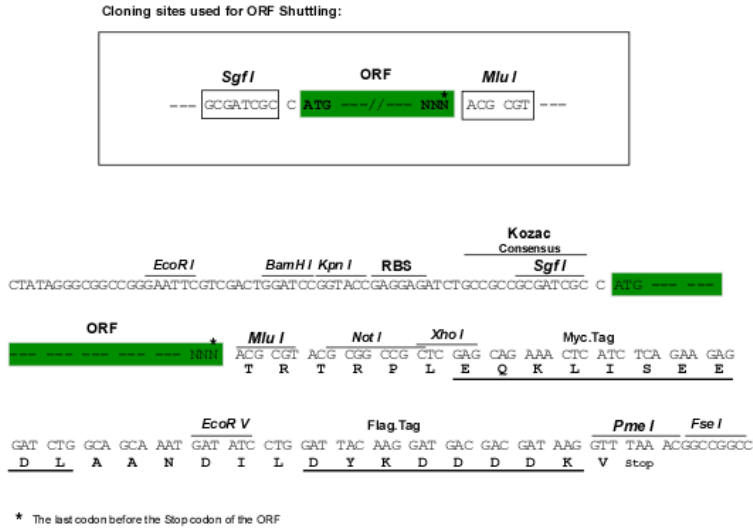
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6411\\_b05.zip](https://cdn.origene.com/chromatograms/mk6411_b05.zip)



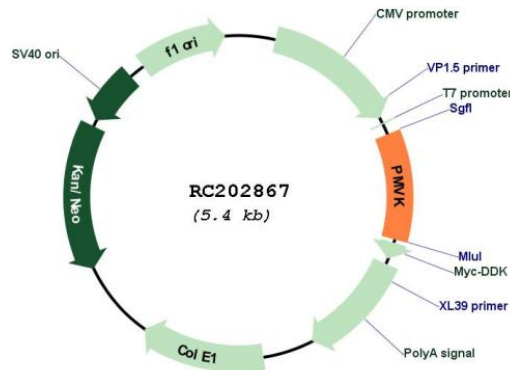
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_006556

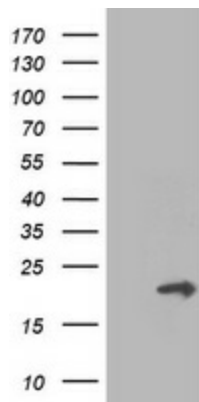
ORF Size: 576 bp

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](#)

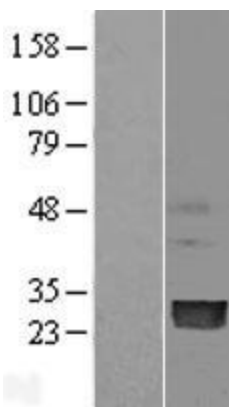
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_006556.4</a>
<b>RefSeq Size:</b>	1307 bp
<b>RefSeq ORF:</b>	579 bp
<b>Locus ID:</b>	10654
<b>UniProt ID:</b>	<a href="#">Q15126</a>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	P-mevalo_kinase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Terpenoid backbone biosynthesis
<b>MW:</b>	22 kDa
<b>Gene Summary:</b>	This gene encodes a peroxisomal enzyme that is a member of the galactokinase, homoserine kinase, mevalonate kinase, and phosphomevalonate kinase (GHMP) family of ATP-dependent enzymes. The encoded protein catalyzes the conversion of mevalonate 5-phosphate to mevalonate 5-diphosphate, which is the fifth step in the mevalonate pathway of isoprenoid biosynthesis. Mutations in this gene are linked to certain types of porokeratosis including disseminated superficial porokeratosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

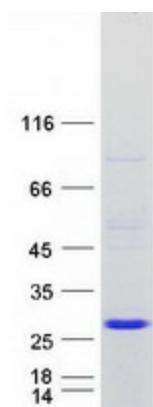
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PMVK (Cat# RC202867, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PMVK (Cat# [TA503449]). Positive lysates [LY416571] (100ug) and [LC416571] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416571]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202867 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PMVK protein (Cat# [TP302867]). The protein was produced from HEK293T cells transfected with PMVK cDNA clone (Cat# RC202867) using MegaTran 2.0 (Cat# [TT210002]).