

## Product datasheet for **RG202867**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PMVK (NM\_006556) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PMVK  
**Synonyms:** HUMPMKI; PMK; PMKA; PMKASE; POROK1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202867 representing NM\_006556  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGCTGGGAGGCGCCCCGGCTGGTACTGCTGTTCCAGCGGCAAGAGGAAATCCGGAAGGACT  
 TCGTGACCGAGGCGCTGCAGAGCAGACTTGGAGCTGATGTCTGTGCTGTCTCCGCTCTCTGGTCCACT  
 CAAGGAACAGTATGCTCAGGAGCATGGCTTGAACCTCCAGAGACTCCTGGACACCAGCACCTACAAGGAG  
 GCCTTTCCGAAGGACATGATCCGCTGGGAGAGGAGAAACGCCAGGCTGACCCAGGCTTCTTTTCAGGA  
 AGATTGTGGAGGGCATCTCCAGCCCATCTGGCTGGTGTGAGTGACACCGGAGAGTGTCTGACATCCAGTG  
 GTTTCGGGAGGCCATATGGGGCCGTGACGCAGACGGTCCGCGTGTAGCGTTGGAGCAGAGCCGACAGCAG  
 CGGGGCTGGGTGTTACGCCAGGGTGGACGATGCTGAGTCAGAATGTGGCTGGACAACCTCGGGGACT  
 TTGACTGGGTATCGAGAACCATGGAGTTGAACAGCGCCTGGAGGAGCAGTTGGAGAACCTGATAGAATT  
 TATCCGCTCCAGACTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG202867 representing NM\_006556  
 Red=Cloning site Green=Tags(s)

MAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRRLSGPLKEQYAEHGLNFQRLLDTSTYKE  
 AFRKDMIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDDRVSIDIQWFREAYGAVTQTVRVVALEQSRQQ  
 RGWVFTPGVDDAESECGLDNFGDFDWIENHGVEQRLEEQLLENLIEFIRSRL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**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.

**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\\_006556.4](#)

**RefSeq Size:** 1307 bp

**RefSeq ORF:** 579 bp

**Locus ID:** 10654

**UniProt ID:** [Q15126](#)

**Cytogenetics:** 1q21.3

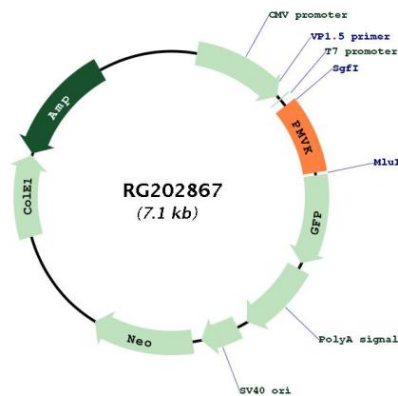
**Domains:** P-mevalo\_kinase

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Terpenoid backbone biosynthesis

**Gene Summary:** 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:**



Circular map for RG202867