

Product datasheet for **RC237598**

MVK (NM_001301182) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MVK (NM_001301182) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MVK
Synonyms: LRBP; MK; MVLK; POROK3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237598 representing NM_001301182
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGTCAGAAGTCCTACTGGTGTCTGCTCCGGGAAAGTCATCCTTCATGGAGAACATGCCGTGGTAC
ATGGCAAGGTAGCACTGGCTGTATCCTTGAAGTGAAGAACATTCCCTCCGGCTTCAACCCACAGCAATGG
GAAAGTGGACCTCAGCTTACCCAACATTGGTATCAAGCGGGCCTGGGATGTGGCCAGGCTTCAGTCACTG
GACACAAGCTTTCTGGAGCAAGGTGATGTCAACACCCACCTCAGAGCAAGTGGAGAAGCTAAAGGAGG
TTGCAGGCTTGCCTGACGACTGTGCTGTACCCGAGCGCCTGGCTGTGCTGGCCTTTCTTTACTTATACCT
GTCCATCTGCCGGAAGCAGAGGTGGACCAAGGAGGATTTGGAGCTAATTAACAAGTGGGCCTTCCAAGGG
GAGAGAATGATTCACGGGAACCCCTCCGGAGTGGACAATGCTGTGACGACCTGGGGAGGAGCCCTCCGAT
ACCATCAAGGGAAGATTTTCATCCTTAAAGAGGTGCGCCAGCTCTCCAGATCCTGCTGACCAACACCAAAGT
CCCTCGCAATACCAGGGCCCTTGTGGCTGGCGTCAGAAACAGGCTGCTCAAGTCCCAGAGATCGTGGCC
CCCCTCCTGACCTCAATAGATGCCATCTCCCTGGAGTGTGAGCGCGTGTGGGAGAGATGGGGGAAGCC
CAGCCCCGGAGCAGTACCTCGTGTGGAAGAGCTATTGACATGAACAGCACCATCTGAATGCCCTCGG
CGTGGCCACGCCTCTCTGGACCAGCTCTGCCAGGTGACCAGGGCCCGGACTTCACAGCAAGCTGACT
GGCGCAGCGGTTGGTGGCTGTGGCATCACACTCTCAAGCCAGGCTGGAGCAGCCAGAAGTGGAGGCCA
CGAAGCAGGCCCTGACCAGCTGTGGCTTTGACTGCTTGGAAACCAGCATCGGTGCCCCCGCGTCTCCAT
CCACTCAGCCACCTCCCTGGACAGCCGAGTCCAGCAAGCCCTGGATGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC237598 representing NM_001301182
Red=Cloning site Green=Tags(s)

MLSEVLLVSAPGKVIHGEHAVVHGKVALAVSLNLRFTFLRLQPHSNGKVDLSLPNIGIKRAWDVARLQSL
 DTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLLYLISICRKQRWTKEDLEL INKWFQG
 ERMIHGNPSGVDNAVSTWGGALRYHQGKISSLKRSPALQILLTNTKVPRNTRALVAGVRNRLKFP EIVA
 PLLTSDAIAISLECERVLGEMGEAPAEQYLVEELIDMNQHHLNALGVGHASLDQLCQVTRARGLHSKLT
 GAGGGGCGITLLKPGLEQPEVEATKQALTSCGFDCLETSIGAPGVSIHSATSLDSRVQALDGL

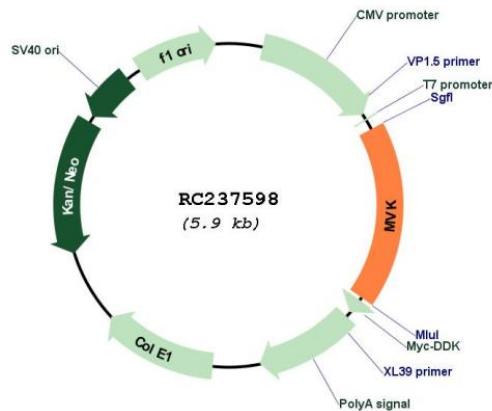
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301182

ORF Size: 1032 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:	<ol style="list-style-type: none">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_001301182.2
RefSeq Size:	1928 bp
RefSeq ORF:	1035 bp
Locus ID:	4598
UniProt ID:	Q03426
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
MW:	37.6 kDa
Gene Summary:	This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized psychomotor retardation, failure to thrive, hepatosplenomegaly, anemia and recurrent febrile crises. Defects in this gene also cause hyperimmunoglobulinaemia D and periodic fever syndrome, a disorder characterized by recurrent episodes of fever associated with lymphadenopathy, arthralgia, gastrointestinal dismay and skin rash. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]