

Product datasheet for **SC335492**

MVK (NM_001301182) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MVK (NM_001301182) Human Untagged Clone
Tag:	Tag Free
Symbol:	MVK
Synonyms:	LRBP; MK; MVLK; POROK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335492 representing NM_001301182. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTGTCAGAAGTCCTACTGGTGTCTGCTCCGGGAAAGTCATCCTTCATGGAGAACATGCCGTGGTA
CATGGCAAGGTAGCACTGGCTGTATCCTTGAACCTGAGAACATTCCTCCGGCTTCAACCCACAGCAAT
GGGAAAGTGGACCTCAGCTTACCAACATTGGTATCAAGCGGGCCTGGGATGTGGCCAGGCTTCACTCA
CTGGACACAAGCTTTCTGGAGCAAGGTGATGTACAACACCCACCTCAGAGCAAGTGGAGAAGCTAAAG
GAGGTTGCAGGCTTGCCTGACGACTGTGCTGTACCGAGCGCCTGGCTGTGCTGGCCTTTCTTTACTTA
TACCTGTCCATCTGCCGGAAGCAGAGGTGGACCAAGGAGGATTTGGAGCTAATTAACAAGTGGGCCTTC
CAAGGGGAGAGAATGATTCACGGGAACCCCTCCGGAGTGGACAATGCTGTGAGCAGCTGGGAGGAGCC
CTCCGATACCATCAAGGGAAGATTTTCATCCTTAAAGAGGTGCGCCAGCTCTCCAGATCCTGCTGACCAAC
ACCAAAGTCCCTCGCAATACCAGGGCCCTGTGGCTGGCGTCAGAAACAGGCTGCTCAAGTTCCCAGAG
ATCGTGGCCCCCTCCTGACCTCAATAGATGCCATCTCCTGGAGTGTGAGCGCGTGTGGGAGAGATG
GGGGAAGCCCCAGCCCCGGAGCAGTACCTCGTGTGGAAGAGCTCATTGACATGAACCAGCACCATCTG
AATGCCCTCGGCGTGGGCCACGCCTCTCTGGACCAGCTCTGCCAGGTGACCAGGGCCCGGACTTAC
AGCAAGCTGACTGGCGCAGGCGGTGGTGGCTGTGGCATCACACTCTCAAGCCAGGGCTGGAGCAGCCA
GAAGTGGAGGCCACGAAGCAGGCCCTGACCAGCTGTGGCTTTGACTGCTTGGAAACCAGCATCGGTGCC
CCCGCGTCTCCATCCACTCAGCCACCTCCCTGGACAGCCGAGTCCAGCAAGCCCTGGATGGCCTTGA
```

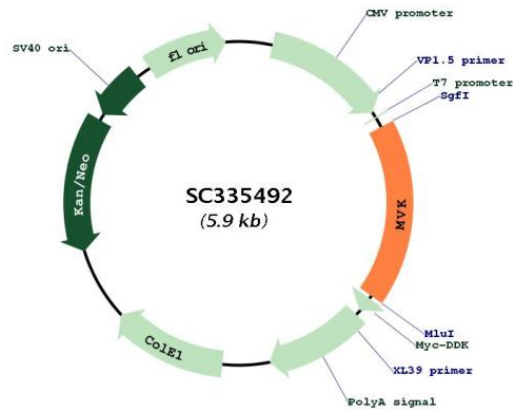
```
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001301182

Insert Size: 1035 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001301182.1](#)

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: 37.2 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 distention and skin rash. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (b) is shorter than isoform a.