

## Product datasheet for MR206185

### Mvk (NM\_023556) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mvk (NM_023556) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mvk
Synonyms:	2310010A05Rik; AI256848; AI414037; MK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206185 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTCAGAAGCCCTGCTGGTGTCCGCCCGGGGAAGGTCATCCTCCATGGAGAACACGCTGTGGTCC  
ATGGCAAGGTCGCTCTGGCAGCGCCTTGAACCTGAGAACTTTCTCTGCTGCGACCGCAGAGCAATGG  
GAAAGTGAGCGTCAATTTACCCAACATCGGTATTAAGCAGGTGTGGGATGTGGGCATGCTTCAGCGACTG  
GACACGAGCTTTCTTGTAGCAAGGTGATGTCTCGGTACCCACCTTGAGCAACTGGAGAAGCTAAAGAAGA  
TGGGGACCTCCCAGAGACCGTGCAGGCAATGAAGGCATGGCTCTGCTTGCCTTTCTCTACCTGTACCT  
GGCAATCTGCCGGAAGCAGAGGACACTCCCGAGCCTGGACATGGTGGTGTGGTGGAACTTCCCCCGGG  
GCAGGCTTGGGCTCCAGCGCCGCTACTCTGTGTGTCTGGCAGCCGCCCTCCTGACTGCCTGTGAGGAGG  
TCTCCAACCCGCTCAAGGACGGGTCTCCGTGACGAGGTGGCCCGAGGAAGATCTGAAGTCAATCAACAA  
GTGGGCCCTTGAAGGGGAGAGAGTATCCATGGGAACCTTCTGGTGTGGACAAATGCCGTGACACCTGG  
GGCGGAGCCCTGCGCTTCCAGCAAGGGACGATGTCTTCTTGAAGAGCCTCCCGTCTCTGCAGATCCTGC  
TCACCAACACCAAGGTCCCGGGAGTACCAAGGCCCTTGTGGTGTGTGTCAGAAGCAGGCTGACCAAGTT  
CCCTGAGATTGTGGCCCGCTGCTGACCTCCATTGACGCAATATCCCTGGAGTGTGAGCGCGTGTAGGG  
GAGATGGTGGCAGCTCCAGTTCCGGAACAGTACCTCGTACTAGAAGAGCTGATAGACATGAACAGCACC  
ATCTGAATGCTCTCGGGGTGGCCACAACCTCCCTGGACCAGCTCTGCCAAGTAACGGCAGCACACGGACT  
GCACAGCAAGCTGACGGGCGCTGGCGGTGGCGGCTGTGGCATCACCTCCTGAAGCCAGGCTAGAGCAA  
GCCACAGTGGAGGACGCAAGCAGGCCCTGACCAGCTGCGGGTTTACTGCTGGGAGACCAGCATCGGCG  
CACCCGGAGTTTCCACACACTCAGTGCAGCTGTAGGGGACCCTGTCCGACAAGCCCTGGGCCTC

**ACGGT**ACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206185 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSEALLVSAPGKVIHGEHAVVHGKVALAAALNLRTFLLLRPQSNQKVSVNLPNIGIKQVWDVGMQLQRL  
 DTSFLEQGDVSVPTLEQLEKLLKMGDLPRDRAGNEGMALLAFLYLILAICRKQRTLPSLDMVWSELPPG  
 AGLGSSAAYSVCLAAALLTACEEVSNNPLKDGVSVSRWPEEDLKSINKWAFEGERVIHGNPSGVDNAVSTW  
 GGALRFQQTMSLKLPSLQILLTNTKVPSTKALVAAVRSRLTKFPEIVAPLLTSIDAI SLECEVRLG  
 EMVAAPVPEQYLVEELIDMNQHHLNALGVGHNSLDQLCQVTAHGLHSLKLTGAGGGGCGITLLKPGLEQ  
 ATVEAAKQALTSCGFDCWETSIGAPGVSTHSAAVGDPVRQALGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023556

**ORF Size:** 1188 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\\_023556.3](#)

**RefSeq Size:** 1712 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 17855

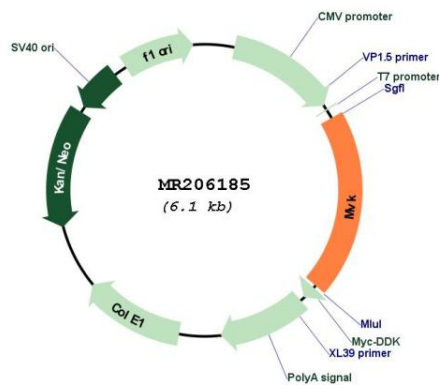
**UniProt ID:** [Q9R008](#)

**Cytogenetics:** 5 55.99 cM

**MW:** 41.9 kDa

**Gene Summary:** This gene encodes mevalonate kinase, a key enzyme involved in the biosynthesis of cholesterol and non-sterol isoprenes. The complete lack of encoded protein is lethal to mouse embryos. Mice lacking one allele of this gene exhibit increased levels of mevalonate in spleen, heart and kidney, as well as increased levels of serum immunoglobulins A and D. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

### Product images:



Circular map for MR206185