

## Product datasheet for **MG206185**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mvk (NM_023556) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mvk
Synonyms:	2310010A05Rik; AI256848; AI414037; MK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206185 representing NM_023556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTCAGAAGCCCTGCTGGTGTCCGCCCGGGGAAGGTCATCCTCCATGGAGAACACGCTGTGGTCC  
ATGGCAAGGTCGCTCTGGCAGCGGCCTTGAACCTGAGAACCTTCTCCTGCTGCGACCGCAGAGCAATGG  
GAAAGTGAGCGTCAATTTACCCAACATCGGTATTAAGCAGGTGTGGGATGTGGGCATGCTTCAGCGACTG  
GACACGAGCTTTCTTGAGCAAGGTGATGTCTCGGTACCCACCTTGAGCAACTGGAGAAGCTAAAGAAGA  
TGGGGACCTCCCAGAGACCGTGCAGGCAATGAAGGCATGGCTCTGCTTGCCTTCTCTACCTGTACCT  
GGCAATCTGCCGGAAGCAGAGGACACTCCCGAGCCTGGACATGGTGGTGTGGTCCGAACTTCCCCCGGG  
GCAGGCTTGGGCTCCAGCGCCGCTACTCTGTGTGTCTGGCAGCCGCCCTCCTGACTGCCTGTGAGGAGG  
TCTCCAACCCGCTCAAGGACGGGTCTCCGTCAGCAGGTGGCCCGAGGAAGATCTGAAGTCAATCAACAA  
GTGGGCCCTTCGAAGGGGAGAGAGTATCCATGGGAACCTTCTGGTGTGGACAATGCCGTGAGCACTGG  
GGCGGAGCCCTGCGCTTCCAGCAAGGGACGATGTCTTCTTGAAGAGCCTCCCGTCTCTGCAGATCCTGC  
TCACCAACACCAAGGTCCCGCGGAGTACCAAGGCCCTTGTGGCTGCTGTGAGAAGCAGGCTGACCAAGTT  
CCCTGAGATTGTGGCCCCGCTGCTGACCTCCATTGACGCAATATCCCTGGAGTGTGAGCGCGTGTAGGG  
GAGATGGTGGCAGCTCCAGTTCGGGAACAGTACCTCGTACTAGAAGAGCTGATAGACATGAACAGCACC  
ATCTGAATGCTCTCGGGGTGGCCACAACCTCCCTGGACCAGCTCTGCCAAGTAACGGCAGCACACGGACT  
GCACAGCAAGCTGACGGGCGCTGGCGGTGGCGGCTGTGGCATCACCCCTCTGAAGCCAGGCTAGAGCAA  
GCCACAGTGGAGGCAGCAAGCAGGCCCTGACCAGCTGCGGGTTTACTGCTGGGAGACCAGCATCGGCG  
CACCCGGAGTTTCCACACACTCAGTGCAGCTGTAGGGGACCCTGTCCGACAAGCCCTGGGCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206185 representing NM\_023556  
 Red=Cloning site Green=Tags(s)

MLSEALLVSAPGKVIHGEHAVVHGKVALAAALNLRTFLLLRPQSNQKVSVNLPNIGIKQVVDVGMQLQRL  
 DTSFLEQGDVSVPTLEQLEKLLKMGDLPRDRAGNEGMALLAFLYLILAICRKQRTLPSLDMVVWSELPPG  
 AGLGSSAAYSVCLAAALLTACEEVSNPLKDGVSVSRWPEEDLKSINKWAFEGERVIIHGNPSGVDNAVSTW  
 GGALRFQQTMSLKLPSLQIILLTNTKVPRSTKALVAAVRSRLTKFPEIVAPLLTSIDAI SLECEVLG  
 EMVAAPVPEQYL VLEELIDMNQHHLNALGVGHNSLDQLCQVTAHGLHSLKLTGAGGGGCGITLLKPLEQ  
 ATVEAAKQALTSCGFDCWETSIGAPGVSTHSAAAVGDPVRQALGL

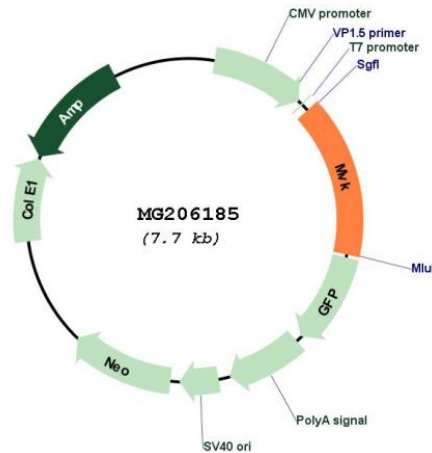
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_023556

<b>ORF Size:</b>	1185 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_023556.3</a>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	17855
<b>UniProt ID:</b>	<a href="#">Q9R008</a>
<b>Cytogenetics:</b>	5 55.99 cM
<b>Gene Summary:</b>	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]