

## Product datasheet for **MC225869**

### Mdk (NM\_001291481) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mdk (NM\_001291481) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mdk  
**Synonyms:** Mek; MK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225869 representing NM\_001291481  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCAGCACCGAGGCTTCTTCTCTCGCCCTTTCGCCCTTGGTGGTCACGTCCGCGGTGGCCAAAA  
AAAAAGAGAAGGTGAAGAAGGGCAGCGAGTGTTCCGAGTGGACCTGGGGCCCTGCACCCCAGCAGCAA  
GGACTGCGGCATGGGCTCCGCGAGGGTACCTGTGGGGCCAGACCCAGCGCTCCATTGCAAGGTGCC  
TGCAACTGGAAGAAGGAATTTGGAGCCGACTGCAATACAAGTTTGAGAGCTGGGGGGCGTGTATGGGA  
GCACTGGCACCAAGCCCGCCAAGGGACCTGAAGAAGGCGCGGTACAATGCCAGTGCCAGGAGACCAT  
CCGCGTGACTAAGCCCTGCACCTCCAAGACCAAGTCAAAGACCAAGCAAGAAAGGAAAAGGAAAGGAC  
TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291481  
**Insert Size:** 423 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).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001291481.1</a></u> , <u><a href="#">NP_001278410.1</a></u>
<b>RefSeq Size:</b>	785 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	17242
<b>UniProt ID:</b>	<u><a href="#">P12025</a></u>
<b>Cytogenetics:</b>	2 50.63 cM
<b>Gene Summary:</b>	<p>This gene encodes a secreted growth factor that belongs to the pleiotrophin/midkine heparin-binding protein family and functions in a variety of biological processes. The encoded cytokine promotes the growth, differentiation, survival and migration of several target cells including leucocytes involved in inflammation. This protein plays a role in the formation of scar tissue and intraperitoneal adhesions, and promotes neurite outgrowth and neuron survival. The protein encoded by this gene is associated with obesity and inhibition of insulin signaling in fat cells. A pseudogene of this gene is present on chromosome 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1 through 4 encode the same isoform (a).</p>