

## Product datasheet for MR200892

### Mdk (NM\_010784) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mdk (NM\_010784) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mdk  
**Synonyms:** Mek; MK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200892 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGCAGCACCGAGGCTTCTCTCTCGCCCTTGGCCCTTGGTGGTCACGTCCGCGGTGGCCAAA  
 AAAAAGAGAAGGTGAAGAAGGGCAGCGAGTGTCGGAGTGGACCTGGGGCCCTGCACCCCAGCAGCAA  
 GGACTGCGGCATGGCTCCGCGAGGGTACCTGTGGGGCCAGACCCAGCGCTCATTGCAAGGTGCC  
 TGCAACTGGAAGAAGGAATTTGGAGCCGACTGCAATAACAAGTTGAGAGCTGGGGGCGTGTGATGGGA  
 GCACTGGCACAAAGCCCGCCAAGGGACCCTGAAGAAGGCGCGTACAATGCCAGTGCCAGGAGACCAT  
 CCGCGTGACTAAGCCCTGCACCTCCAAGACCAAGTCAAAGACCAAGCCAAGAAAGAAAAGGAAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200892 protein sequence  
 Red=Cloning site Green=Tags(s)

MQHRGFLLALLALLVVTSAVAKKKEKVKKGSECSEWTWGPCTPSSKDCGMGFREGTCGAQTRVHCKVP  
 CNWKKEFGADCKYKFESWGACDGTGKARQGLTKARYNAQCQETIRVTKPCTSKTKSKTKAKKKGKGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_010784

**ORF Size:** 423 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\\_010784.5](#)

**RefSeq Size:** 1077 bp

**RefSeq ORF:** 423 bp

**Locus ID:** 17242

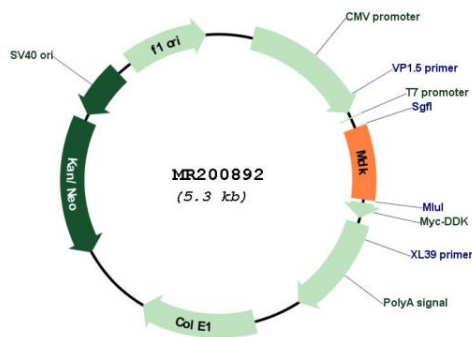
UniProt ID: [P12025](#)

Cytogenetics: 2 50.63 cM

MW: 15.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR200892