

Product datasheet for **MR227791**

Mdk (NM_001291482) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mdk (NM_001291482) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mdk
Synonyms: Mek; MK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227791 representing NM_001291482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCCGCGAGGGTACCTGTGGGGCCAGACCCAGCGCTCCATTGCAAGGTGCCCTGCAACTGGA
AGAAGGAATTTGGAGCCGACTGCAAATACAAGTTTGGAGAGCTGGGGGCGTGTGATGGGAGCACTGGCAC
CAAAGCCCGCAAGGGACCCTGAAGAAGCGCGGTACAATGCCAGTGCCAGGAGACCATCCGCGTGACT
AAGCCCTGCACCTCCAAGACCAAGTCAAAGACCAAGCCAAGAAAGGAAAAGGAAAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227791 representing NM_001291482
Red=Cloning site Green=Tags(s)

MGFREGTCGAQTQRVHCKVPCNWKKEFGADCKYKFESWGACDGGSTGTKARQGLKKARYNAQCQETIRVT
KPCTSKTKSKTKAKKGGKGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

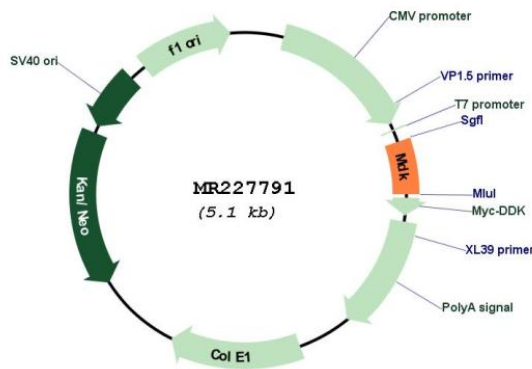


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001291482

ORF Size: 270 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](#)

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|-------------------------------|--|
| 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: | <ol style="list-style-type: none">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: | <u>NM_001291482.1</u> , <u>NP_001278411.1</u> |
| RefSeq Size: | 798 bp |
| RefSeq ORF: | 273 bp |
| Locus ID: | 17242 |
| Cytogenetics: | 2 50.63 cM |
| MW: | 10.4 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] |