

Product datasheet for RC203995

Midkine (MDK) (NM_001012333) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Midkine (MDK) (NM_001012333) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Midkine
Synonyms: ARAP; MK; NEGF2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203995 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCACCGAGGCTTCTCCTCCTCACCTCCTCGCCCTGCTGGCGCTCACCTCCGCGGTGCGCAAAA
AGAAAGATAAGGTGAAGAAGGGCGGCCCGGGAGCGAGTGCCTGAGTGGGCTGGGGCCCTGCACCCC
CAGCAGCAAGGATTGCGGCGTGGGTTCCGCGAGGGCACCTGCGGGCCAGACCCAGCGCATCCGGTGC
AGGGTGCCCTGCAACTGGAAGAAGGAGTTGGAGCCGACTGCAAGTACAAGTTTGAGAACTGGGGTGCCT
GTGATGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCTGAAGAAGGGCGCTACAATGCTCAGTGCCA
GGAGACCATCCGCGTCACCAAGCCCTGCACCCCAAGACCAAAGCAAAGCCAAAGCAAGAAAGGGAAG
GGAAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203995 protein sequence
Red=Cloning site Green=Tags(s)
MQHRGFLLLTLALLALTSAVAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGTCGAQTQRIRC
RVPCNWKKEFGADCKYKFENWGACDGGTGKVRQGTLLKKARYNAQCQETIRVTKPCTPKTKAKAKAKGK
GKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_d08.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012333

ORF Size: 429 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.

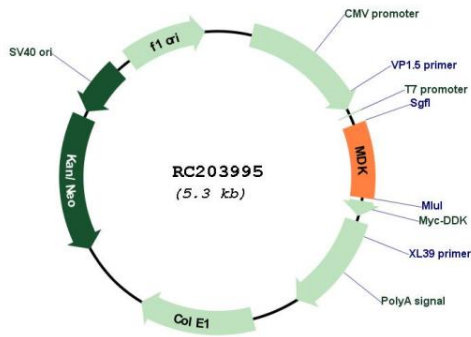
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001012333.2](#)

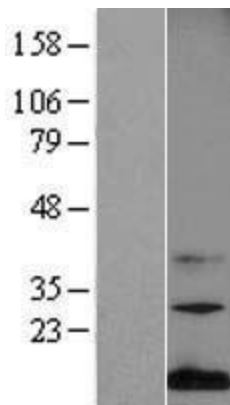
RefSeq Size: 969 bp

RefSeq ORF: 432 bp

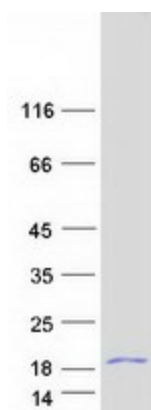
Locus ID: 4192
UniProt ID: [P21741](#)
Cytogenetics: 11p11.2
Protein Families: Druggable Genome, Secreted Protein, Transmembrane
MW: 15.6 kDa
Gene Summary: This gene encodes a member of a small family of secreted growth factors that binds heparin and responds to retinoic acid. The encoded protein promotes cell growth, migration, and angiogenesis, in particular during tumorigenesis. This gene has been targeted as a therapeutic for a variety of different disorders. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2012]

Product images:


Circular map for RC203995



Western blot validation of overexpression lysate (Cat# [LY423328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221818] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MDK protein (Cat# [TP303995]). The protein was produced from HEK293T cells transfected with MDK cDNA clone (Cat# RC203995) using MegaTran 2.0 (Cat# [TT210002]).