

## Product datasheet for RC233246

### Midkine (MDK) (NM\_001270552) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Midkine (MDK) (NM\_001270552) 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:** >RC233246 representing NM\_001270552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGCACCGAGGCTTCTCCTCCTCACCTCCTCGCCCTGCTGGCGCTCACCTCCGCGGTGCCAAAA  
 AGAAAGCCGACTGCAAGTACAAGTTTGAGAACTGGGGTGCCTGTGATGGGGGCACAGGCACCAAAGTCCG  
 CCAAGGCACCTGAAGAAGGCGCTACAATGCTCAGTGCCAGGAGACCATCCGCGTCACCAAGCCCTGC  
 ACCCCCAAGACCAAGCAAGGCCAAAGCCAAGAAAGGGAAGGAAAGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233246 representing NM\_001270552  
 Red=Cloning site Green=Tags(s)  
 MQHRGFLLLTLLALLALTSVAKKKADCKYKFENWGACDGGTGTKVVRQGLKKARYNAQCQETIRVTKPC  
 TPKTKAKAKAKKGGKGD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001270552

ORF Size: 261 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.

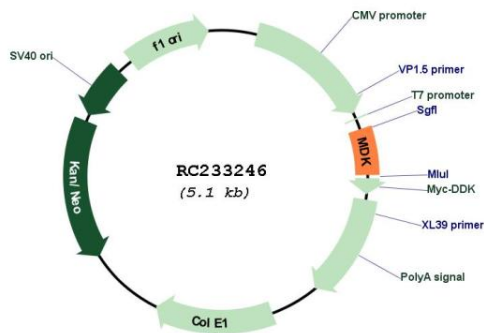
RefSeq: [NM\\_001270552.2](#)

RefSeq Size: 730 bp

RefSeq ORF: 264 bp

<b>Locus ID:</b>	4192
<b>UniProt ID:</b>	<a href="#">P21741</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>MW:</b>	10 kDa
<b>Gene Summary:</b>	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 RC233246