

Product datasheet for **RG233301**

Midkine (MDK) (NM_001270550) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Midkine (MDK) (NM_001270550) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MDK
Synonyms: ARAP; MK; NEGF2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233301 representing NM_001270550
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCACCCGAGGCTTCTCCTCCTCACCTCCTCGCCCTGCTGGCGCTCACCTCCGCGGTGCGCAAAA
AGAAAGATAAGGTGAAGAAGGGCGGCCGGGAGCGAGTGCCTGAGTGGGCCTGGGGCCCTGCACCCC
CAGCAGCAAGGATTGCGGCTGGGTTCCGCGAGGGCACCTGCGGGCCAGACCCAGCGCATCCGGTGC
AGGGTGCCCTGCAACTGGAAGAAGGAGTTGGAGCCGACTGCAAGTACAAGTTTGAGAACTGGGGTGCCT
GTGATGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCTGAAGAAGGGCGCTACAATGCTCAGTGCCA
GGAGACCATCCGCGTCACCAAGCCCTGCACCCCAAGACCAAAGCAAAGCCAAAGCAAGAAAGGGAAG
GGAAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233301 representing NM_001270550
Red=Cloning site Green=Tags(s)

MQHRGFLLLTLLALLALTSVAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGTCGAQTQRIRC
RVPCNWKKEFGADCKYKFENWGACDGGTGTKVRQGLKKARYNAQCQETIRVTKPCTPKTKAKAKKKGK
GKD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

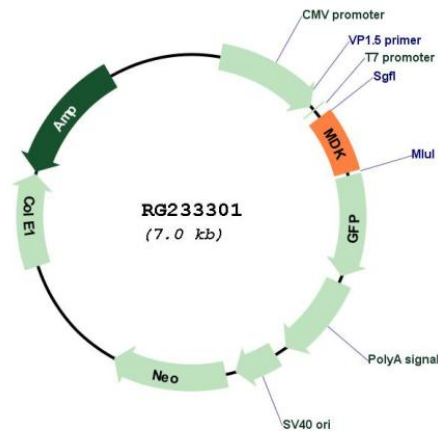


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001270550

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:	<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_001270550.1</u> , <u>NP_001257479.1</u>
RefSeq Size:	1194 bp
RefSeq ORF:	432 bp
Locus ID:	4192
UniProt ID:	<u>P21741</u>
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
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]