

## Product datasheet for RC226557

### MKRN1 (NM\_001145125) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MKRN1 (NM_001145125) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MKRN1
Synonyms:	RNF61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226557 representing NM_001145125 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGGCTGCAACTCCCGGAACAACAGCCACAACATCAGGAGCAGGAGCGGCAGCGGCACGGCGG  
CAGCAGCTCCCCACCCGATCCCCACAGTCACCGCCCGTCCCTGGGGCGGGCGAGGGGGCGGCGG  
CAGCGACGGCAGCGGGCGGCTGGACTAACAGGTCACCTGCAGGATTTTATGCATGGGGTTGTAAG  
GAAGGAGACAACGTGCTACTCGCATGACCTCTCTGACAGTCCGTATAGTGTAGTGTGCAAGTATTTT  
AGCGAGGGTACTGTATTTATGGAGACCGCTGCAGATATGAACATAGCAAACATTGAAACAGGAAGAAGC  
AACTGCTACAGAGCTAACTACAAAGTCATCCCTTGCTGCTTCCTCAAGTCTCTCATCGATAGTTGGACCA  
CTTGTTGAAATGAATACAGGCGAAGCTGAGTCAAGAAATTCAAACTTTGCAACTGTAGGAGCAGGTTTCAG  
AGGACTGGGTGAATGCTATTGAGTTTGTCTGGGCAACCTACTGTGGCCGACTGCGCCTTCTCGCAC  
TGAAGCACCCCTGCAGGGCTCAGTGACCAAGGAAGAATCAGAGAAAGAGCAAACCGCCGTGGAGACAAA  
AAGCAGCTGTGCCCTATGCTGCAGTGGGAGAGTGCCGATACGGGGAGAAGTGTGTGTATCTCCACGGAG  
ATTCTTGTGACATGTGTGGGCTGCAGGTCCTGCATCCAATGGATGCTGCCAGAGATCGCAGCATATCAA  
ATCGTGCATTGAGGCCATGAGAAGGACATGGAGCTCTCATTGGCGTGCAGCGCAGCAAGGACATGGTG  
TGTGGGATCTGCATGGAGGTGGTCTATGAGAAAGCCAACCCAGTGAGCGCCGCTTCGGGATCCTCTCCA  
ACTGCAACCACACCTACTGTCTCAAGTGCAATTCGCAAGTGGAGGAGTGTAAAGCAATTTGAGAGCAAGAT  
CATAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC226557 representing NM\_001145125  
Red=Cloning site Green=Tags(s)

MAEAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAGGGGGSDGSGGGWTKQVTCRYFMHGVC  
 EGDNCRYSHDLSDSPYSVVCKYFQRGYCIYGDRCRYEHSKPLKQEATATELTTKSSLAASSLSSIVGP  
 L VEMNTGEAESRNSNFATV GAGSEWDVNAIEFVPGQPYCGRTAPSCTEAPLQGSVTKEESEKEQTAVETK  
 KQLCPYAAVGECRYGENCVYLHGDSDCMGLQVLHPMDAAQRSQHIKSCIEAHEKDMELSFVQRSKDMV  
 CGICMEVYVEKANPSERRFGILSNCHTYCLKCIRKWSAKQFESKIIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8052\\_f02.zip](https://cdn.origene.com/chromatograms/mk8052_f02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001145125

**ORF Size:** 987 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\\_001145125.1](#), [NP\\_001138597.1](#)

**RefSeq ORF:** 990 bp

**Locus ID:** 23608

**UniProt ID:** [Q9UHC7](#)

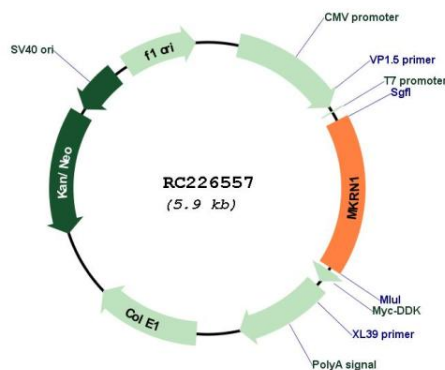
**Cytogenetics:** 7q34

**Protein Families:** Druggable Genome

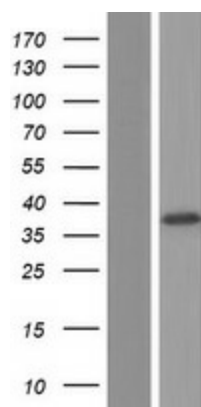
**MW:** 35 kDa

**Gene Summary:** This gene encodes a protein that belongs to a novel class of zinc finger proteins. The encoded protein functions as a transcriptional co-regulator, and as an E3 ubiquitin ligase that promotes the ubiquitination and proteasomal degradation of target proteins. The protein encoded by this gene is thought to regulate RNA polymerase II-catalyzed transcription. Substrates for this protein's E3 ubiquitin ligase activity include the capsid protein of the West Nile virus and the catalytic subunit of the telomerase ribonucleoprotein. This protein controls cell cycle arrest and apoptosis by regulating p21, a cell cycle regulator, and the tumor suppressor protein p53. Pseudogenes of this gene are present on chromosomes 1, 3, 9, 12 and 20, and on the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]

### Product images:



Circular map for RC226557



Western blot validation of overexpression lysate (Cat# [LY428707]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226557 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).