

## Product datasheet for SC325775

### MKRN1 (NM\_001145125) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MKRN1 (NM_001145125) Human Untagged Clone
Tag:	Tag Free
Symbol:	MKRN1
Synonyms:	RNF61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325775 representing NM_001145125. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGGCGGAGGCTGCAACTCCCGGAACAACAGCCACAACATCAGGAGCAGGAGCGGCAGCGGCACGGCG  
 GCAGCAGCCTCCCCACCCCGATCCCCACAGTCACCGCCCGTCCCTGGGGCGGGCGGAGGGGGCGGC  
 GGCAGCGACGGCAGCGGGCGGGCTGGACTAACAGGTCACCTGCAGGTATTTTATGCATGGGGTTTGT  
 AAGGAAGGAGACAACGTGCTACTCGCATGACCTCTCTGACAGTCCGTATAGTGTAGTGTGCAAGTAT  
 TTTCAGCGAGGGTACTGTATTTATGGAGACCGCTGCAGATATGAACATAGCAAACATTGAAACAGGAA  
 GAAGCAACTGCTACAGAGCTAACTACAAAGTCATCCCTTGCTGCTTCTCAAGTCTCTCATCGATAGTT  
 GGACCACTTGTTGAAATGAATACAGGCGAAGCTGAGTCAAGAAATTCAACTTTGCAACTGTAGGAGCA  
 GGTTTCAGAGGACTGGGTGAATGCTATTGAGTTTGTTCCTGGGCAACCCTACTGTGGCCGTAAGTGCCT  
 TCCTGCACTGAAGCACCCCTGCAGGGCTCAGTGACCAAGGAAGAATCAGAGAAAGAGCAAACCGCCGTG  
 GAGACAAAGAAGCAGCTGTGCCCTATGCTGCAGTGGGAGAGTGCCGATACGGGGAGAAGTGTGTAT  
 CTCCACGGAGATTCTGTGACATGTGTGGGCTGCAGGTCTGCATCCAATGGATGCTGCCAGAGATCG  
 CAGCATATCAAATCGTGCAATTGAGGCCCATGAGAAGGACATGGAGCTCTCATTGGCGTGACGGCAGC  
 AAGGACATGGTGTGTGGGATCTGCATGGAGGTGGTCTATGAGAAAGCCAAACCCAGTGAGCGCCGCTTC  
 GGGATCCTCTCCAATGCAACCACACCTACTGTCTCAAGTGCATTGCAAGTGGAGGAGTGCTAAGCAA  
 TTTGAGAGCAAGATCATAAAG**TGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001145125
Insert Size:	990 bp


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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001145125.1</a></u>
<b>RefSeq Size:</b>	1686 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	23608
<b>UniProt ID:</b>	<u><a href="#">Q9UHC7</a></u>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	35.2 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains a 3' terminal exon that extends past a splice site that is used in variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter compared to isoform 1.</p>