

## Product datasheet for **SC313381**

### MOK protein kinase (MOK) (NM\_014226) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MOK protein kinase (MOK) (NM_014226) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOK protein kinase
Synonyms:	RAGE; RAGE-1; RAGE1; STK30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014226, the custom clone sequence may differ by one or more nucleotides

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ATGAAGAACTATAAAGCAATTGGCAAATAGGAGAGGGAACGTTTTCTGAAGTTATGAAGATGCAAAGCC
TGAGAGATGGAACTACTATGCATGTAACAAATGAAGCAGCGCTTTGAAAGTATTGAGCAAAGTCAACAA
CCTACGAGAGATCCAAGCACTGAGGCGCCTGAATCCGCACCCAAACATTCTTATGTTGCATGAAGTGTT
TTTGACAGAAAATCTGGTTCTCTTGCACTAATATGTGAACCTATGGACATGAATATTTATGAGCTAATAC
GAGGGAGAAGATACCCATTATCAGAAAAAAAATATGCACTATATGTACCAGTTATGTAAGTCCCTGGA
TCATATTCACAGAAATGGAATATTTACAGAGATGTAAAACAGAAAATATACTAATAAAGCAGGATGTC
CTGAAATTAGGGGACTTTGGCTCCTGCCGAGTGTCTATTCCAAGCAGCCGTACACGGAATACATCTCCA
CCCGCTGGTACCGGGCCCGGAGTGTCTCCTCACTGATGGGTTCTACACGTACAAGATGGACCTGTGGAG
CGCCGGCTGTGTGTTCTACGAGATCGCCAGTCTGCAGCCCTCTTTCTGGAGTAAATGAACTGGACCAA
ATCTCAAAAATCCACGATGTCATCGGCACACCCGCTCAGAAGATCCTCACCAAGTTCAAACAGTCGAGAG
CTATGAATTTTGATTTTCTTTTAAAAAGGGATCAGGAATACCTCTACTAACAACCAATTTGTCCCCACA
ATGCCTCTCCCTCCTGCACGCAATGGTGGCCTATGATCCCGATGAGAGAATCGCCGCCACCAGGCCCTG
CAGCACCCCTACTTCCAAGAACAGAGGAAAACAGAGAAGCGGGCTCTGGGCAGCCACAGAAAAGCTGGCT
TTCCGGAGCACCCCTGTGGCACCGGAACCACTCAGTAACAGCTGCCAGATTTCCAAGGAGGGCAGAAAAGCA
GAAACAGTCCCTAAAGCAAGAGGAGGACCGTCCCAAGAGACGAGGACCGGCTATGTCATGGAACCTGCCC
AAACTAAAGCTTTCGGGAGTGGTCAGACTGTCGTCTTACTCCAGCCCCACGCTGCAGTCCGTGCTTGGAT
CTGGAACAAATGGAAGAGTGCCGGTGCTGAGACCTTGAAGTGCATCCCTGCGAGCAAGAAGACAGATCC
GCAGAAGGACCTTAAGCTGCCCGCAGCAGTGTGCCTGCCACCATAGTGCAGAAAGCGGAAGATAA
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Restriction Sites:	Please inquire
ACCN:	NM_014226



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<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>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.</p>
<b>Components:</b>	<p>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).</p>
<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>	<a href="#">NM_014226.1</a> , <a href="#">NP_055041.1</a>
<b>RefSeq Size:</b>	1954 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	5891
<b>UniProt ID:</b>	<a href="#">Q9UQ07</a>
<b>Cytogenetics:</b>	14q32.31
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Gene Summary:**

This gene belongs to the MAP kinase superfamily. The gene was found to be regulated by caudal type transcription factor 2 (Cdx2) protein. The encoded protein, which is localized to epithelial cells in the intestinal crypt, may play a role in growth arrest and differentiation of cells of upper crypt and lower villus regions. Multiple alternatively spliced transcript variants encoding different isoforms have been observed for this gene. [provided by RefSeq, Dec 2012]

Transcript Variant: This variant (1) encodes the longer isoform (1).