

Product datasheet for **RG215365**

MOK protein kinase (MOK) (NM_014226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOK protein kinase (MOK) (NM_014226) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MOK protein kinase
Synonyms:	RAGE; RAGE-1; RAGE1; STK30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215365 representing NM_014226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAACTATAAGCAATTGGCAAAATAGGAGAGGGAACGTTTTCTGAAGTTATGAAGATGCAAAGCC
TGAGAGATGGAACTACTATGCATGTAACAAATGAAGCAGCGCTTTGAAAGTATTGAGCAAGTCAACAA
CCTACGAGAGATCCAAGCACTGAGGCGCCTGAATCCGCACCCAAACATTCTTATGTTGCATGAAGTGTT
TTTGACAGAAAACTGGTCTCTTGCCTAATATGTGAACCTATGGACATGAATATTTATGAGCTAATAC
GAGGGAGAAGATACCCATTATCAGAAAAAATATGCACTATATGTACCAGTTATGTAAGTCCCTGGA
TCATATTCACAGAAATGGAATATTTACAGAGATGTAACCAGAAAATACTAATAAAGCAGGATGTC
CTGAAATTAGGGGACTTTGGCTCCTGCCGAGTGTCTATTCCAAGCAGCCGTACACGGAATACATCTCCA
CCCGCTGGTACCGGGCCCGGAGTGTCTCCTCACTGATGGGTTCTACACGTACAAGATGGACCTGTGGAG
CGCCGGCTGTGTGTTCTACGAGATCGCCAGTCTGCAGCCCTCTTTCTGGAGTAAATGAACTGGACCAA
ATCTCAAAAATCCACGATGTCATCGGCACACCCGCTCAGAAGATCCTCACCAAGTTCAAACAGTCGAGAG
CTATGAATTTGATTTTCCTTTAAAAAGGGATCAGGAATACCTCTACTAACAACCAATTTGCCCCACA
ATGCCTCTCCCTCCTGCACGCAATGGTGGCCTATGATCCCGATGAGAGAATCGCCGCCACCAGGCCCTG
CAGCACCCCTACTTCCAAGAACAGAGAAAACAGAGAAGCGGGCTCTGGGCAGCCACAGAAAAGCTGGCT
TTCCGGAGCACCCCTGTGGCACCGAACCCTCAGTAACAGCTGCCAGATTTCCAAGGAGGGCAGAAAAGCA
GAAACAGTCCCTAAAGCAAGAGGAGGACCGTCCCAAGAGACGAGGACCGCCTATGTCATGGAAGTCCCG
AAACTAAAGCTTTCCGGAGTGGTCAGACTGTCGCTTACTCCAGCCCCACGCTGCAGTCCGTGCTTGGAT
CTGGAACAAATGGAAGAGTGCCGGTGTGAGACCCCTGAAGTGCATCCCTGCGAGCAAGAAGACAGATCC
GCAGAAGGACCTTAAGCTGCCCGCAGCAGTGTGCCTGCCACCATAGTGCAGAAAGCGGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215365 representing NM_014226
 Red=Cloning site Green=Tags(s)

MKNYKAIGKIGEGTFSEVMKMQSLRDGNYYACKQMKQRFESIEQVNNLREIQALRRLNPHNPLMLHEVV
 FDRKSGSLALICELMDMNIYELIRGRRYPLSEKKIMHYMYQLCKSLDHIHRNGIFHRDVKPENILIKQDV
 LKLGDFGSCRSVYSKQPYTEYISTRWYRAPECLLTDGFYTYKMDLWSAGCVFYEIASLQPLFPGVNELDQ
 ISKIHVDVIGTPAQKILTKFKQSRAMNDFPFKKGSGIPLLTNNLSPQCLSLHAMVAYDPDERIAAHQAL
 QHPYFQEQRKTEKRALGSHRKAGFPEHPVAPEPLSNSCQISKEGRKQKQSLKQEEDRPKRRGPAYVMELP
 KKLKLSGVVRLSSYSSPTLQSVLGSSTNGRVPVLRPLKCIIPASKKTDPPQKDLKPAPQQCRLPTIVRKGGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014226

ORF Size: 1257 bp

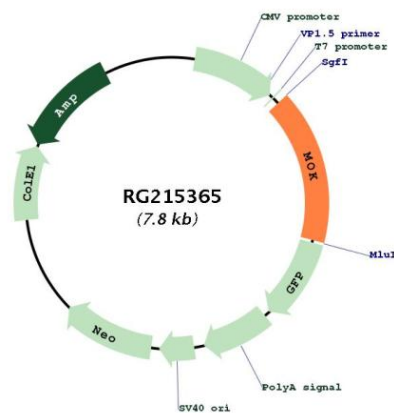
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_014226.3</u>
RefSeq Size:	1954 bp
RefSeq ORF:	1260 bp
Locus ID:	5891
UniProt ID:	<u>Q9UQ07</u>
Cytogenetics:	14q32.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	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]

Product images:



Circular map for RG215365