

Product datasheet for **RG232637**

MOK protein kinase (MOK) (NM_001272011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOK protein kinase (MOK) (NM_001272011) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MOK
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:	>RG232637 representing NM_001272011 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAACTATAAGCAATTGGCAAAATAGGAGAGGGAACGTTTTCTGAAGTTATGAAGATGCAAAGCC
TGAGAGATGGAACTACTATGCATGTAACAAATGAAGCAGCGCTTTGAAAGTGACAGAAAATCTGGTTC
TCTTGCACTAATATGTGAACTTATGGACATGAATATTTATGAGCTAATACGAGGGAGAAGATACCCATTA
TCAGAAAAAAAATTATGCACTATATGTACCAGTTATGTAAGTCCCTGGATCATATTCACAGAAATGGAA
TATTTACAGAGATGTAACCAGAAAAATACTAATAAAGCAGGATGTCCTGAAATTAGGGGACTTTGG
CTCCTGCCGAGTGTCTATTCCAAGCAGCCGTACACGGAATACATCTCCACCCGCTGGTACCGGGCCCCG
GAGTGTCTCCTCACTGATGGGTTCTACACGTACAAGATGGACCTGTGGAGCGCCGGCTGTGTGTTCTACG
AGATCGCCAGTCTGCAGCCCCTCTTTCCTGGAGTAAATGAACTGGACAAATCTCAAAAATCCACGATGT
CATCGGCACACCCGCTCAGAAGATCCTCACCAAGTTCAAACAGTCGAGAGCTATGAATTTTGATTTTCT
TTAAAAAGGGATCAGGAATACCTCTACTAACAACCAATTTGTCCCACAATGCCTCTCCCTCCTGCACG
CAATGGTGGCCTATGATCCCGATGAGAGAATCGCCGCCACCAGGCCCTGCAGCACCCCTACTTCCAAGA
ACAGAGGAAAACAGAGAAGCGGGCTCTGGGCAGCCACAGAAAAGCTGGCTTTCCGGAGCACCCCTGTGGCA
CCGGAACCACTCAGTAACAGCTGCCAGATTTCCAAGGAGGCGAGAAACAGTCCCTAAAGCAAG
AGGAGGACCGTCCCAAGAGACGAGGACCGCCTATGTCATGGAAGTCCCAAACTAAAGTTTCGGGAGT
GGTCAGACTGTCGCTTACTCCAGCCCCACGCTGCAGTCCGTGCTTGGATCTGGAACAAATGGAAGAGTG
CCGGTGTGAGACCCCTTGAAGTGCATCCCTGCGAGCAAGAAGACAGATCCGCAGAAGGACCTTAAGCCTG
CCCCGACGAGTGTGCCTGCCACCATAGTGCAGAAAGGCGGAAGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232637 representing NM_001272011
 Red=Cloning site Green=Tags(s)

MKNYKAIGKIGEGTFSEVMKMQSLRDGNYYACKQMKQRFESDRKSGSLALICELMDMNIYELIRRRYPL
 SEKKIMHYMYQLCKSLDHIHRNGIFHRDVKPENILIKQDVLKLGDFGSCRSVYSKQPYTEYISTRWYRAP
 ECLLTDGFYTYKMDLWSAGCVFYEIASLQPLFPGVNELDQISKIHDVIGTPAQKILTKFKQSRAMNDFDP
 FKKGSGIPLLTNLSPOQLSLLHAMVAYDPDERIAAHQALQHPYFQEQRKTEKRALGSHRKAGFPEHPVA
 PEPLSNQCQISKEGRKQKQSLKQEEDRPKRRGPAYVMELPKLKLSGVVRLSSYSSPTLQSVLGSGTNGRV
 PVLRLPKCIPASKKTDPOKDLKPAPQQCRLPTIVRKGG

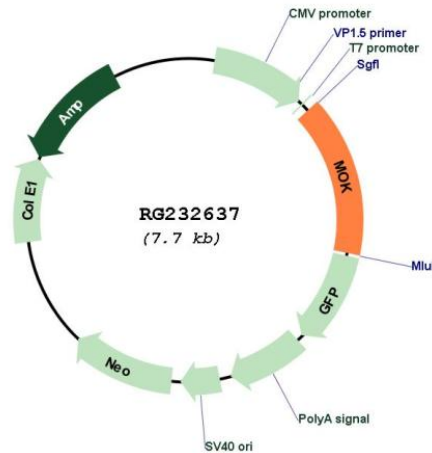
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001272011

ORF Size:	1167 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:	NM_001272011.2
RefSeq Size:	1888 bp
RefSeq ORF:	1170 bp
Locus ID:	5891
UniProt ID:	Q9UQ07
Cytogenetics:	14q32.31
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]