

Product datasheet for **RG234997**

MCK10 (DDR1) (NM_001202523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001202523) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCK10
Synonyms:	CAK; CD167; DDR; EDDR1; HGK2; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234997 representing NM_001202523
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCACTGCCGAGATGCTGCCCCACCCCTTAGGCCCGAGGGATCAGGAGCTATGGGACCAGAGGCC
 TGTCACTTTACTGCTGCTGCTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTGTCTGC
 CAAGTGCCGCTATGCCCTGGGCATGCAGGACCGACCATCCCAGACAGTACATCTCTGCTTCCAGCTCC
 TGGTCAGATTCCACTGCCGCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGATGGGGCCTGGTCCCCG
 CAGGGTCGGTGTTCCTCAAGGAGGAGGAGTACTTGCAGGTGGATCTACAACGACTGCACCTGGTGGCTCT
 GGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTTCTCCCGAGCTACCGGCTGCGTTAC
 TCCCGGGATGGTCGCCGCTGGATGGCTGGAAGGACCGCTGGGGTCAGGAGGTGATCTCAGGCAATGAGG
 ACCCTGAGGGAGTGGTGTGAAGGACCTGGGCCCCCATGGTTGCCGACTGGTTGCTTCTACCCCCG
 GGCTGACCGGGTCATGAGCGTCTGTCTGCGGGTAGAGCTCTATGGCTGCCTCTGGAGGGATGGACTCCTG
 TCTTACACCGCCCTGTGGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTCAACGACTCCACCTATG
 ACGGACATACCGTGGGCGGACTGCAATATGGGGTCTGGGCCAGCTGGCAGATGGTGTGGTGGGGCTGGA
 TGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATGACTATGTGGGATGGAGCAACCACAGC
 TTCTCCAGTGGCTATGTGGAGATGGAGTTTGTAGTTTGACCGGCTGAGGGCCTTCCAGGCTATGCAGGTCC
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 GCTGTCTCAGTGCCCTTGGCGCCGTGTGGCTCGCTTCTGAGTGGCGCTTCTCTTTGCGGGGCCCT
 GGTTACTCTTTCAGCGAAATCTCTTTCATCTGATGTGGTGAACAATTCCTCTCCGGCAGTGGGAGGCAC
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 CCGCTCCTGTGTCCTCAATGGCTCTGCCTACAGTGGGGACTATATGGAGCCTGAGAAGCCAGGCGCCCC
 GCTTCTGCCCCACCTCCCAGAACAGCGTCCCCATTATGCCGAGGCTGACATTGTTACCTGCAGGGC
 GTCACCGGGGCAACACCTATGCTGTGCCTGCACTGCCCCAGGGGCAGTCGGGGATGGGCCCCAGAG
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 CCTCTGCATGATTACTGACTACATGGAGAACGGCGACCTCAACCAGTTTCTCAGTGCCCACAGCTGGAG
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 CCTGGCCACGCGAACTGCCTAGTTGGGGAAAATTTACCATCAAATCGCAGACTTTGGCATGAGCCCGG
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 AGTGCATCCTCATGGGAAGTTCACGACTGCGAGTGACGTGTGGGCTTTGGTGTGACCCTGTGGGAGGT
 GCTGATGCTCTGTAGGGCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTATCGAGAACCGGGGGAG
 TTCTTCCGGGACAGGGCCGGCAGGTGTACCTGTCCCGCCGCTGCCTGCCCGCAGGGCCTATATGAGC
 TGATGCTTCGGTGTGGAGCCGGGAGTCTGAGCAGCGACCACCTTTTCCAGCTGCATCGGTTCTTGGC
 AGAGGATGCACTAACACGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG234997 representing NM_001202523
 Red=Cloning site Green=Tags(s)

MSLPRCCPHLRPEGSGAMGPEALSSLLLLLLVASGDADMKGHFDPACRYALGMQDRTIPDSDISASS
 WSDSTAARHSRLESSDGDGAWCPAGSVFPKEEYLVQDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRY
 SRDGRRWGMKDRWGQEVISGNEDPEGVVLKDLGPPMVARLVRFPYPRADRVMSVCLRVELYGCLRWDGLL
 SYTAPVGQTMYLSEAVYLNDSYDGHTVGGLQYGGGLQGLADGVVGLDDFRKSQELRWPGYDYVGSNHS
 FSSGYVEMEFDFDLRAFAQMQVHCNNMHTLGARLPGGVECFRRGPAMAWEGEPMRHNLGGNLGDPRAR
 AVSVPLGGRVARFLQCRFLFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWPPGPPPTNFSLELEP
 RGQQPVAKAEGSPTAILIGCLVAIILLLLIIALMLWRLHWRLLSKAERRVLEEELTVHLSVPGDTILI
 NNRPGPREPPPYQEPRPRGNPPHSAPCVPNGSAYSVDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQG
 VTGNTYAVPALPPGAVGDGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVDSQDLVSLDFPLNVRKGRP
 LLVAVKILRPDATKNARNDFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGDNLQFLSAHQLE
 DKAAEGAPGDGQAAQGPTISYPMLLHVAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSR
 NLYAGDYRVQGRAVLP IRWMAWECILMGKFTTASDVWAFGVTLWEVLMLCRAQPFQGLTDEQVIENAGE
 FFRDQGRQVYLSRPPACPQGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

TRTRPLE - GFP Tag - V

Restriction Sites:

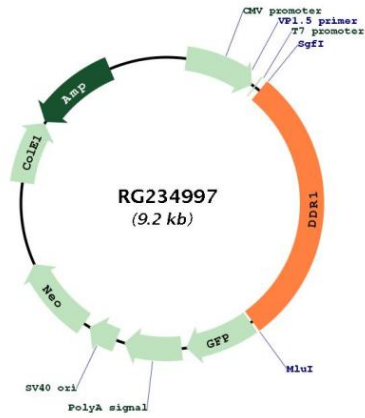
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001202523
ORF Size:	2682 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_001202523.1 , NP_001189452.1
RefSeq Size:	3801 bp
RefSeq ORF:	2631 bp
Locus ID:	780
UniProt ID:	Q08345
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Gene Summary:	Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen. Expression of this protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RG234997