

Product datasheet for **RC239719**

MCK10 (DDR1) (NM_001297653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001297653) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCK10
Synonyms:	CAK; CD167; DDR; EDDR1; HGK2; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239719 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTCTTGGTGCAAGTGAGATGCTGACATGAAGG
 GACATTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGACCATCCAGACAGTGACAT
 CTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGAT
 GGGCCTGGTGCCCGCAGGGTCGGTGTTCCTCAAGGAGGAGGAGTACTTGCAGGTGGATCTACAACGAC
 TGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTTCTCCCGGAG
 CTACCGGTGCGTTACTCCCGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCAGGAGGTG
 ATCTCAGGCAATGAGGACCTGAGGGAGTGGTCTGAAGGACCTTGGGCCCCCATGGTTGCCGACTGG
 TTCGTTCTACCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCCGGTAGAGCTCTATGGCTGCCTCTG
 GAGGGATGGACTCTGTCTTACTGCTGCCCTGTGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTC
 AACGACTCCACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGGTCTGGCCAGCTGGCAGATG
 GTGTGGTGGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCCGGTCTGGCCAGGCTATGACTATGTGGG
 ATGGAGCAACCACAGCTTCTCCAGTGGCTATGTGGAGATGGAGTTGAGTTTGACCGGCTGAGGGCCTTC
 CAGGCTATGCAGGTCCACTGTAACAACATGCACACGCTGGGAGCCGCTGCCTGGCGGGGTGGAATGTC
 GCTTCCGGCGTGGCCCTGCCATGGCCTGGGAGGGGGAGCCATGCGCCACAACCTAGGGGGCAACCTGGG
 GGACCCAGAGCCCGGGCTGTCTCAGTGCCCTTGGCGCCGTGGCTCGCTTCTGCAGTGCCGCTTC
 CTCTTTGGGGCCCTGGTACTCTCAGCGAAATCTCCTCATCTCTGATGTGGTGAACAATTCCTCTC
 CGCAGCTGGGAGGCACCTTCCCGCCAGCCCTGGTGGCCGCTGGCCACCTCCACCACTCCAGATTC
 CTTGGAGCTGGAGCCAGAGGCCAGAGCCCGTGGCCAAGGCCGAGGGGAGCCCGACCGCCATCCTCATC
 GGCTGCCTGGTGGCCATCATCCTGCTCCTGCTGCTCATATTGCCCTCATGCTCTGGCGGCTGACTGGC
 GCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTCACCTCTCTGTCCCTGG
 GGACACTATCCTCATCAACAACCGCCAGGTCCTAGAGAGCCACCCCGTACCAGGAGCCCGGCCCTCGT
 GGGAAATCCGCCCCACTCCGCTCCTGTGTCCCAATGGCTCTGCCTACAGTGGGGACTATATGGAGCCTG
 AGAAGCCAGGCGCCCGCTTCTGCCCCACCTCCCGAAGCAGCGTCCCCATTATGCCAGGCTGACAT
 TGTTACCTGCAGGGCGTACCAGGGGGCAACACCTATGCTGTGCCTGACTGCCCCAGGGGCAGTCGGG
 GATGGGCCCCAGAGTGGATTTCCCTCGATCTCGACTCCGTTCAAGGAGAAGCTTGGCGAGGGCCAGT
 TTGGGGAGGTGCACCTGTGTGAGGTCGACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAATGT
 GCGTAAGGGACACCCCTTGTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCAAGAATGCCAGGAAT
 GATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTCCGGCTGCTGGCGGTGT
 GTGTGCAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGGCAGCTCAACCAGTTCCTCAG
 TGCCCACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACGGGCAGGCTGCGCAGGGGGCCACC
 ATCAGTACCCAATGCTGCTGCATGTGGCAGCCAGATCGCTCCGGCATGCGCTATCTGGCCACTCA
 ACTTTGTACATCGGGACCTGGCCACGCGAACTGCCTAGTTGGGAAAAATTCACCATCAAAATCGCAGA
 CTTTGGCATGAGCCGGAACCTCTATGCTGGAACTATTACCGTGTGAGGGCCGGCAGTGTCTGCCATC
 CGCTGGATGGCCTGGGAGTGCATCCTCATGGGAAGTTCACGACTGCGAGTGACGTGTGGCCCTTTGGTG
 TGACCCTGTGGGAGTGTGATGCTCTGTAGGGCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTGAT
 CGAGAACGCGGGGAGTTCTTCCGGGACCAGGGCCGCGAGGTGTACCTGTCCCGCCGCTGCCTGCCCG
 CAGGGCCTATATGAGCTGATGCTTCGGTCTGGAGCCGGGAGTCTGAGCAGGACCACCTTTTCCAGC
 TGCATCGGTTCTGGCAGAGGATGCACTCAACACGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239719 protein sequence
 Red=Cloning site Green=Tags(s)

MGPEALSSLLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSISASSSWSDSTAARHSRLESSDGD
 GAWCPAGSVFPKEEYLQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMGWKDRWGQEV
 ISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCWRDGLLSYAPVQTMYLSEAVYL
 NDSTYDGHTVGLQYGGGLQADGVVGLDDFRKSQELRVWPGYDYVGSNHSFSSGYVEMEFDFRLRAF
 QAMQVHCNNMHTLGARLPGGVECRFRRGPAMAWEGEPMRHNLGGNLGDPRARAVSVPLGGRVARFLQCRF
 LFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWPPGPPPTNFSLELEPRGQPVAKAEGSPTAILI
 GCLVAIILLLLLIIALMLWRLHWRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPR
 GNPPHSAPCVNGSAYSVDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQGVTTGNTYAVPALPPGAVG
 DGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVDSPODLVSLDFPLNVRKGHPLLVAVKILRPDATKNARN
 DFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENDLNQFLSAHQLEDKAAEGAPGDGQAAQGPT
 ISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNL YAGNYYRVQGRAVLPI
 RWWAWECILMGKFTTASDVWAFVTLWEVLMCRAQPFQQLTDEQVIENAGEFFRDQGRQVYLRPPAC
 QGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

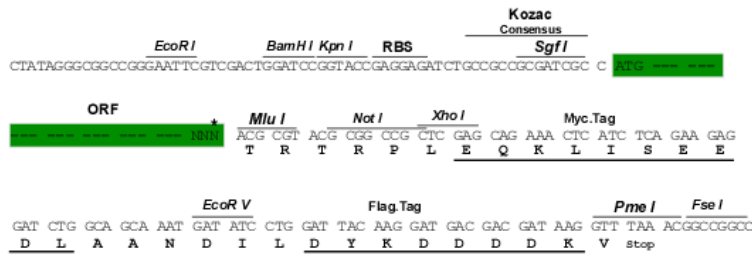
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2479_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

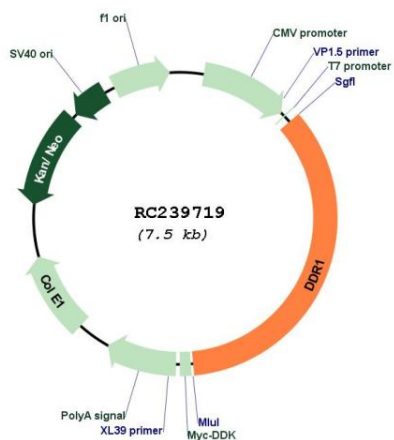
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001297653
ORF Size:	2628 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_001297653.1 , NP_001284582.1
RefSeq Size:	3722 bp
RefSeq ORF:	2631 bp
Locus ID:	780
UniProt ID:	Q08345
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
MW:	97.2 kDa
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 RC239719