

## Product datasheet for **RC239718**

### **MCK10 (DDR1) (NM\_001297652) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001297652) 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:**

>RC239718 representing NM\_001297652  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCTCTTGGTGCCAAGTGAGATGCTGACATGAAGG  
 GACATTTTGCATCCTGCCAAGTGCCTGATGCCCTGGGCATGCAGGACCGACCATCCAGACAGTGACAT  
 CTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGAT  
 GGGCCTGGTGCCCGCAGGGTCCGGTGTTCCTCCAAAGGAGGAGGAGTACTTGCAGGTGGATCTACAACGAC  
 TGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTTCTCCCGGAG  
 CTACCGGCTGCGTTACTCCCGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCAGGAGGTG  
 ATCTCAGGCAATGAGGACCTGAGGGAGTGGTCTGAAGGACCTTGGGCCCCCATGGTTGCCGACTGG  
 TTCGTTCTACCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCCGGTAGAGCTCTATGGCTGCCTCTG  
 GAGGGATGGACTCCTGTCTTACTGCTGCCCTGTGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTC  
 AACGACTCCACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGGTCTGGCCAGCTGGCAGATG  
 GTGTGGTGGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCCGGTCTGGCCAGGCTATGACTATGTGGG  
 ATGGAGCAACCACAGCTTCTCCAGTGGCTATGTGGAGATGGAGTTGAGTTTGACCGGCTGAGGGCCTTC  
 CAGGCTATGCAGGTCCACTGTAACAACATGCACACGCTGGGAGCCCGTCTGCCTGGCGGGGTGGAATGTC  
 GCTTCCGGCGTGGCCCTGCCATGGCCTGGGAGGGGGAGCCATGCGCCACAACCTAGGGGGCAACCTGGG  
 GGACCCAGAGCCCGGGCTGTCTCAGTGCCCTTGGCGCCGTGGCTCGCTTCTGCAGTGCCGCTTC  
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 CTTGGAGCTGGAGCCAGAGGCCAGAGCCCGTGGCCAAGGCCGAGGGGAGCCCGACCCGATCCTCATC  
 GGCTGCCTGGTGGCCATCATCCTGCTCCTGCTGCTCATATTGCCCTCATGCTCTGGCGGCTGACTGGC  
 GCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTCACCTCTCTGTCCCTGG  
 GGACACTATCCTCATCAACAACCGCCAGGTCCTAGAGAGCCACCCCGTACCAGGAGCCCGGCCCTCGT  
 GGGAAATCCGCCCCACTCCGCTCCTGTGTCCCAATGGCTCTGCCTACAGTGGGGACTATATGGAGCCTG  
 AGAAGCCAGGCGCCCGCTTCTGCCCCACCTCCCGAGAACAGCGTCCCCATTATGCCAGGCTGACAT  
 TGTTACCTGCAGGGCGTACCCGGGGCAACACCTATGCTGTGCCTGACTGCCCCAGGGGCAGTCGGG  
 GATGGGCCCCAGAGTGGATTTCCCTCGATCTCGACTCCGCTTCAAGGAGAAGCTTGGCGAGGGCCAGT  
 TTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAAATG  
 GCGTAAGGGACACCCCTTGTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCAAGAATGCCAGGAAT  
 GATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTCCGGCTGCTGGCGGTG  
 GTGTGACAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGGCAGCTCAACCAGTTCCTCAG  
 TGCCCACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACGGGCAGGCTGCGCAGGGGCCACCC  
 ATCAGTACCCAATGCTGCTGCATGTGGCAGCCAGATCGCTCCGGCATGCGCTATCTGGCCACACTCA  
 ACTTTGTACATCGGGACCTGGCCACGCGAACTGCCTAGTTGGGAAAAATTCACCATCAAAATCGCAGA  
 CTTTGGCATGAGCCGGAACCTCTATGCTGGAACTATTACCGTGTGACGGCCGGGCAGTGTCTGCCATC  
 CGCTGGATGGCCTGGGAGTGCATCCTCATGGGGAAGTTCACGACTGCGAGTGACGTGTGGCCCTTGGTG  
 TGACCCTGTGGGAGTGTGATGCTCTGTAGGGCCAGCCCTTGGGCGAGCTCACCGACGAGCAGGTGAT  
 CGAGAACGCGGGGAGTTCTTCCGGGACCAGGGCCGCGAGGTGTACCTGTCCCGCCGCTGCTGCCCG  
 CAGGGCCTATATGAGCTGATGCTTCCGTGCTGGAGCCGGGAGTCTGAGCAGGACCACCTTTTCCAGC  
 TGCATCGGTTCTGGCAGAGGATGCACTCAACACGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239718 representing NM\_001297652  
 Red=Cloning site Green=Tags(s)

MGPEALSSLLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSISASSSWSDSTAARHSRLESSDGD  
 GAWCPAGSVFPKEEYLVQDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWGWKDRWGQEV  
 ISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCWRDGLLSYAPVQTMYLSEAVYL  
 NDSTYDGHTVGGGLQYGGGLQGLADGVVGLDDFRKSQELRVWPGYDYVGSNHSFSSGVVEMEFDFRLRAF  
 QAMQVHCNNMHTLGARLPGGVECRFRRGPAWAGEPEMRHNLGGNLGDPRARAVSVPLGGRVARFLQCRF  
 LFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWPPGPPPTNFSLELEPRGQPVAKAEGSPTAILI  
 GCLVAIILLLLLIIALMLWRLHWRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPR  
 GNPPHSAPCVNGSAYSVDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQGVTTGNTYAVPALPPGAVG  
 DGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVDSPODLVSLDFPLNVRKGHPLLVAVKILRPDATKNARN  
 DFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENDLNQFLSAHQLEDKAAEGAPGDGQAAQGP  
 ISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNL YAGNYYRVQGRAVLPI  
 RWWAWECILMGKFTTASDVWAFVTLWEVLMCRAQPFQQLTDEQVIENAGEFFRDQGRQVYLRSPAC  
 QGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2479\\_d05.zip](https://cdn.origene.com/chromatograms/mg2479_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

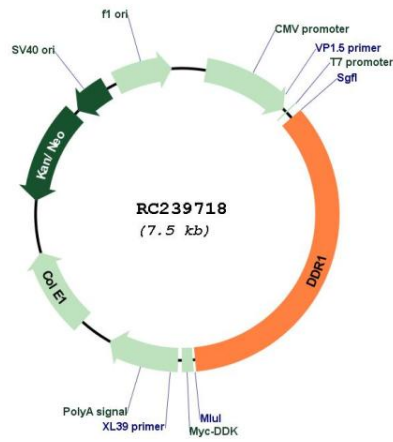
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001297652
<b>ORF Size:</b>	2628 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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_001297652.1</a> , <a href="#">NP_001284581.1</a>
<b>RefSeq Size:</b>	3920 bp
<b>RefSeq ORF:</b>	2631 bp
<b>Locus ID:</b>	780
<b>UniProt ID:</b>	<a href="#">Q08345</a>
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>MW:</b>	97.2 kDa
<b>Gene Summary:</b>	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 RC239718