

## Product datasheet for **RC234859**

### **MCK10 (DDR1) (NM\_001202522) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001202522) 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:**

>RC234859 representing NM\_001202522  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTCTTGGTGCCAAGTGAGATGCTGACATGAAGG  
 GACATTTTATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGACCATCCAGACAGTGACAT  
 CTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGAT  
 GGGCCTGGTGCCCGCAGGGTCGGTGTTCCTCAAGGAGGAGGACTTGCAGGTGGATCTACAACGAC  
 TGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTTCTCCCGGAG  
 CTACCGGCTGCGTTACTCCCGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGTGGGGTCAGGAGGTG  
 ATCTCAGGCAATGAGGACCTGAGGGAGTGGTCTGAAGGACCTGGGCCCCCATGGTTGCCGACTGG  
 TTCGTTCTACCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCCGGTAGAGCTCTATGGCTGCCTCTG  
 GAGGGATGGACTCTGTCTTACACCGCCCTGTGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTC  
 AACGACTCCACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGCCAGCTGGCAGATG  
 GTGTGGTGGGGCTGGATGACTTTAGGAAGATCAGGAGCTGCCGGTCTGGCCAGGCTATGACTATGTGGG  
 ATGGAGCAACCACAGCTTCTCCAGTGGCTATGTGGAGATGGAGTTGAGTTTGACCGGCTGAGGGCCTTC  
 CAGGCTATGCAGGTCCACTGTAACAACATGCACACGCTGGGAGCCGCTGCCTGGCGGGGTGGAATGTC  
 GCTTCCGGCGTGGCCCTGCCATGGCCTGGGAGGGGGAGCCATGCGCCACAACCTAGGGGCAACCTGGG  
 GGACCCAGAGCCCGGGCTGTCTCAGTGCCCTTGGCGCCGTGGCTCGCTTCTGCAGTGCCGCTTC  
 CTCTTTGGGGCCCTGGTTACTCTTACGCGAAATCTCCTTATCTCTGATGTGGTGAACAATTCCTCTC  
 CGGCACCTGGGAGGCACCTTCCCGCCAGCCCTGGTGGCCGCTGGCCACCTCCACCACTTCAGCAG  
 CTTGGAGCTGGAGCCAGAGGCCAGAGCCCGTGGCCAAGGCCGAGGGGAGCCCGACCGCCATCCTCATC  
 GGCTGCCTGGTGGCCATCATCCTGCTCCTGCTCATATTGCCCTCATGCTCTGGCGGCTGCACTGGC  
 GCAGGCTCCTCAGCAAGGTCTAGAGAGCCACCCCGTACCAGGAGCCCGGCTCGTGGGAATCCGCC  
 CACTCCGCTCCCTGTGTCCCAATGGCTCTGGTGCACCTGTGTGAGGTCGACAGCCCTCAAGATCTGGTT  
 AGTCTTGATTTCCCTTAATGTGCGTAAGGGACACCCTTGGTGGTAGCTGTCAAGATCTTACGGCCAG  
 ATGCCACCAAGAATGCCAGGAATGATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAA  
 CATCATTCGGCTGCTGGGCGTGTGTGTCAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAAC  
 GCGGACCTCAACCAGTTCCTCAGTGCCACCAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACG  
 GGCAGGCTGCGCAGGGGCCACCATCAGCTACCAATGCTGCTGCATGTGGCAGCCAGATCGCCTCCGG  
 CATGCGCTATCTGGCCACACTCAACTTTGTACATCGGGACCTGGCCACCGGGAAGTGCCTAGTTGGGAA  
 AATTTACCATCAAAATCGCAGACTTTGGCATGAGCCGGAACCTCTATGCTGGGACTATTACCGTGTGC  
 AGGGCCGGCAGTGTGCCATCCGCTGGATGGCTGGGAGTGCATCCTCATGGGGAAGTTCACGACTGC  
 GAGTGACGTGTGGCCTTTGGTGTGACCCTGTGGGAGGTGCTGATGCTCTGTAGGGCCAGCCCTTTGGG  
 CAGCTCACCGACGAGCAGGTCACTGAGAACGCGGGGAGTTCTTCCGGGACCAGGGCCGGCAGGTGTACC  
 TGTCCCGCCGCTGCTGCCCGCAGGGCTATATGAGCTGATGCTTCGGTGTGGAGCCGGGAGTCTGA  
 GCAGCGACCACCTTTTCCAGCTGCATCGGTTCTGGCAGAGGATGCACTCAACACGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234859 representing NM\_001202522  
 Red=Cloning site Green=Tags(s)

MGPEALSSLLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSISASSSWSDDTAARHSRLESSDGD  
 GAWCPAGSVFPKEEYEQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWGWKDRWQEV  
 ISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCLEWRDGLLSYAPVGTMYLSEAVYL  
 NDSTYDGHTVGGLYGGLGQLADGVVGLDDFRKSQELRVWPGYDYVGSNSHSFSSGYVEMEFDFRLRAF  
 QAMQVHCNNMHTLGARLPGGVECRFRRGPAWAWEGEPMRHNLGGNLGDPRARAVSVPLGGRRVARFLQCRF  
 LFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWPPGPPPTNFSLELEPRGQQPVAKAEGSPTAILI  
 GCLVAIILLLLLLIIALMLWRLHWRLLSKVLESHPRTRSPGLVGIPTPLPVSPMALVHLCEVDSPODLV  
 SLDFPLNVRKGHPLLVAVKILRPDATKNARNDFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMEN  
 GDLNQFLSAHQLEDKAAEGAPGDGQAAQGPTISYPMLLHVAQIASGMRYLATLNFVHRDLATRNCLVGE  
 NFTIKIADFGMSRNLVAGDYRQGRAVLP IRWMAWECILMGKFTTASDVWAFGVTLWEVLMCRAQPFQ  
 QLTDEQVIENAGEFFRDQGRQVYL SRPPACQGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001202522

**ORF Size:** 2301 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:**

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\\_001202522.1](#), [NP\\_001189451.1](#)

**RefSeq Size:** 3222 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 780

**UniProt ID:** [Q08345](#)

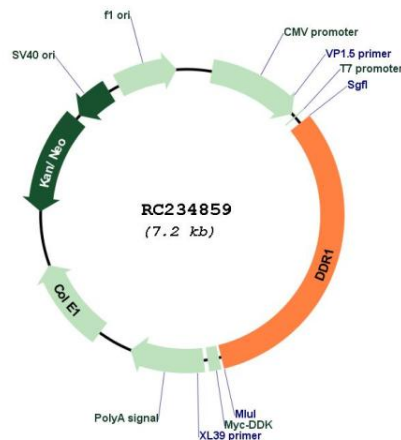
**Cytogenetics:** 6p21.33

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**MW:** 85.9 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 RC234859