

## Product datasheet for **RG201224**

### **MCK10 (DDR1) (NM\_001954) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001954) 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:**

>RG201224 representing NM\_001954  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCTCTTGGTGCAAGTGAGATGCTGACATGAAGG  
 GACATTTTGGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGACCATCCAGACAGTGACAT  
 CTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGAT  
 GGGCCTGGTGCCCGCAGGGTCCGTTGTTCCCAAGGAGGAGGAGTACTTGCAGGTGGATCTACAACGAC  
 TGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTTCTCCCGGAG  
 CTACCGGCTGCGTTACTCCCGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCAGGAGGTG  
 ATCTCAGGCAATGAGGACCTGAGGGAGTGGTCTGAAGGACCTTGGGCCCCCATGGTTGCCGACTGG  
 TTCGTTCTACCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCCGGTAGAGCTCTATGGCTGCCTCTG  
 GAGGGATGGACTCCTGTCTTACTGCTGCCCTGTGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTC  
 AACGACTCCACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGCCAGCTGGCAGATG  
 GTGTGGTGGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCCGGTCTGGCCAGGCTATGACTATGTGGG  
 ATGGAGCAACCACAGCTTCTCCAGTGGCTATGTGGAGATGGAGTTGAGTTTGACCGGCTGAGGGCCTTC  
 CAGGCTATGCAGGTCCACTGTAACAACATGCACACGCTGGGAGCCGCTGCCTGGCGGGGTGGAATGTC  
 GCTTCCGGCGTGGCCCTGCCATGGCCTGGGAGGGGGAGCCATGCGCCACAACCTAGGGGGCAACCTGGG  
 GGACCCAGAGCCCGGGCTGTCTCAGTGCCCTTGGCGCCGTGGCTCGCTTCTGCAGTGCCGCTTC  
 CTCTTTGGGGCCCTGGTACTCTCAGCGAAATCTCCTCATCTCTGATGTGGTGAACAATTCCTCTC  
 CGCAGCTGGGAGGCACCTTCCCGCCAGCCCTGGTGGCCGCTGGCCACCTCCACCACTCCAGATTC  
 CTTGGAGCTGGAGCCAGAGGCCAGAGCCAGAGCCCGTGGCCAAGGCCGAGGGGAGCCCGACCGCCATCCTCATC  
 GGCTGCCTGGTGGCCATCATCCTGCTCCTGCTGCTCATATTGCCCTCATGCTCTGGCGGCTGCACTGGC  
 GCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTCACCTCTCTGTCCCTGG  
 GGACACTATCCTCATCAACAACCGCCAGGTCCTAGAGAGCCACCCCGTACCAGGAGCCCGGCCCTCGT  
 GGGAAATCCGCCCCACTCCGCTCCCTGTGTCCCAATGGCTCTGCCTACAGTGGGACTATATGGAGCCTG  
 AGAAGCCAGGCGCCCGCTTCTGCCCCACCTCCCGAGAACAGCGTCCCCATTATGCCAGGCTGACAT  
 TGTTACCTGCAGGGCGTACCAGGGGGCAACACCTATGCTGTGCCTGCACTGCCCCAGGGGCAGTCGGG  
 GATGGGCCCCAGAGTGGATTTCCCTCGATCTCGACTCCGTTCAAGGAGAAGCTTGGCGAGGGCCAGT  
 TTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAATGT  
 GCGTAAGGGACACCCCTTGTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCAAGAATGCCAGGAAT  
 GATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTCCGGCTGCTGGCGGTGT  
 GTGTGACAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGGCAGCTCAACCAGTTCCTCAG  
 TGCCCACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACGGGCAGGCTGCGCAGGGGGCCACC  
 ATCAGTACCCAATGCTGCTGATGTGGCAGCCAGATCGCTCCGGCATGCGCTATCTGGCCACACTCA  
 ACTTTGTACATCGGGACCTGGCCACGCGAACTGCCTAGTTGGGAAAAATTCACCATCAAAATCGCAGA  
 CTTTGGCATGAGCCGGAACCTCTATGCTGGGACTATTACCGTGTGAGGGCCGGCAGTGTGCCCATC  
 CGCTGGATGGCCTGGGAGTGCATCCTCATGGGGAAGTTCACGACTGCGAGTGACGTGTGGCCCTTGGTG  
 TGACCCTGTGGGAGTGTGATGCTCTGTAGGGCCAGCCCTTGGGCGAGCTCACCGACGAGCAGGTGAT  
 CGAGAACGCGGGGAGTTCTTCCGGGACCAGGGCCGCGAGGTGTACCTGTCCCGCCGCTGCCTGCCCG  
 CAGGGCCTATATGAGCTGATGCTTCGGTCTGGAGCCGGGAGTCTGAGCAGGACCACCTTTTCCAGC  
 TGCATCGGTTCTGGCAGAGGATGCACTCAACACGGTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG201224 representing NM\_001954  
 Red=Cloning site Green=Tags(s)

MGPEALSSLLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSISASSSWSDSTAARHSRLESSDGD  
 GAWCPAGSVFPKEEYEQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMGWKDRWGQEV  
 ISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVLYGCLWRDGLLSYAPVGQTMYLSEAVYL  
 NDSTYDGHTVGGLQYGGGLQADGVVGLDDFRKSQELRVWPGYDYVGSNHSFSSGYVEMEFDFRLRAF  
 QAMQVHCNMHTLGARLPGGVECRFRRGPAMAWEGEPMRHNLGGNLGDPRARAVSVPLGGRRVARFLQCRF  
 LFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWPPGPPPTNFSLELEPRGQQPVAKAEGSPTAILI  
 GCLVAIILLLLLIIALMLWRLHWRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPR  
 GNPPHSAPCVNGSAYSVDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQGVTTGNTYAVPALPPGAVG  
 DGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVDSPODLVSLDFPLNVRKGHPLLVAVKILRPDATKNARN  
 DFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGLNQFLSAHQLEDKAAEGAPGDGQAAQGPT  
 ISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNL YAGDYRYVQGRAVLPI  
 RWWAWECILMGKFTTASDVWAFGVTLWEVLMCRAQPFQQLTDEQVIENAGEFFRDQGRQVYLSRPPAC  
 QGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

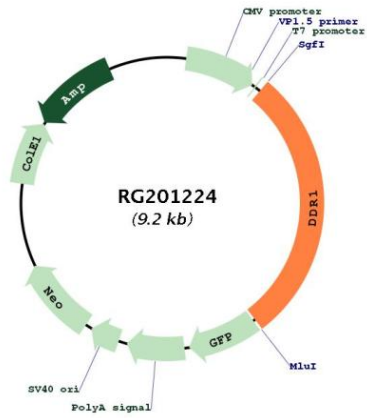
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001954
<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_001954.3</a>
<b>RefSeq Size:</b>	3840 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>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 RG201224