

Product datasheet for **SC331465**

MCK10 (DDR1) (NM_001202521) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MCK10 (DDR1) (NM_001202521) Human Untagged Clone
Tag: Tag Free
Symbol: MCK10
Synonyms: CAK; CD167; DDR; EDDR1; HGK2; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331465 representing NM_001202521.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCTCTTGGTGGCAAGTGGAGATGCTGACATGAAG
GGACATTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGGACCATCCAGACAGTGAC
ATCTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAGGTTGGAGAGCAGTGACGGG
GATGGGGCCTGGTGCCCGCAGGGTCGGTGTTCCTCAAGGAGGAGGAGTACTTGCAGGTGGATCTACAA
CGACTGCACCTGGTGGCTCTGGTGGCACCCAGGGACGGCATGCCGGGGCCTGGGAAGGAGTTCTCC
CGGAGCTACCGGCTGCGTTACTCCGGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCAG
GAGGTGATCTCAGGCAATGAGGACCCCTAGGGAGTGGTGCCTGAAGGACCTTGGGCCCCCATGGTTGCC
CGACTGGTTCGCTTCTACCCCGGGCTGACCGGGTCTATGAGCGTCTGTCTGCGGGTAGAGCTCTATGGC
TGCCCTCTGGAGGGATGGACTCCTGTCTTACACCGCCCCTGTGGGGCAGACAATGTATTTATCTGAGGCC
GTGTACCTCAACGACTCCACCTATGACGGACATACCGTGGGGCGGACTGCAGTATGGGGGTCTGGCCAG
CTGGCAGATGGTGTGGTGGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTAT
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CTGAGGGCCTTCCAGGCTATGCAGTCCACTGTAACAACATGCACACGCTGGGAGCCCGTCTGCCTGGC
GGGGTGAATGTCGCTTCCGGCGTGGCCCTGCCATGGCCTGGGAGGGGGAGCCCATGCGCCACAACCTA
GGGGGCAACCTGGGGGACCCAGAGCCCGGGCTGTCTCAGTGCCCTTGGCGGCGGTGTGGCTCGCTTT
CTGCAGTGCCGCTTCTCTTTGCGGGCCCTGGTACTCTTACAGCGAAATCTCCTTCATCTCTGATGTG
GTGAACAATTCCTCTCCGGCACTGGGAGGCACCTTCCCGCCAGCCCTGGTGGCCGCTGGCCACCT
CCCACCAACTTCAGCAGCTTGGAGCTGGAGCCCAGAGGCCAGCAGCCCGTGGCCAAGGCCGAGGGGAGC
CCGACCGCATCCTCATCGGCTGCCTGGTGGCCATCATCTGCTCCTGCTGCTCATCATTGCCCTCATG
CTCTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACG
GTTACCTCTCTGTCCCTGGGGACACTATCCTCATCAACAACCGCCAGGTCTAGAGAGCCACCCCGG
TACCAGGAGCCCGGCTCGTGGGAATCCGCCCACTCCGCTCCTGTGTCCCAATGGCTCTGGTGA
CCTGTGTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001202521
Insert Size: 1527 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001202521.1</u>
RefSeq Size:	3304 bp
RefSeq ORF:	1527 bp
Locus ID:	780
UniProt ID:	<u>Q08345</u>
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
MW:	56.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) is missing an internal coding exon compared to variant 1. This results in a frame-shift, and early translation termination, rendering this transcript a candidate for nonsense-mediated mRNA decay (NMD). However, the encoded isoform (4, also known as DDR1d) is represented as it has been detected in vivo in several colon carcinoma cell lines (PMID:11344127). This isoform is truncated and lacks the catalytic tyrosine kinase domain, therefore, most likely lacks intrinsic tyrosine kinase activity. It may function in some other regulatory capacity.</p>