

Product datasheet for **SC319112**

MCK10 (DDR1) (NM_001954) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MCK10 (DDR1) (NM_001954) Human Untagged Clone
Tag: Tag Free
Symbol: MCK10
Synonyms: CAK; CD167; DDR; EDDR1; HGK2; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001954.4
 GTCTTCCCCTCGTGGGCCCTGAGCGGGACTGCAGCCAGCCCCCTGGGGCGCCAGCTTTGG
 AGGCCCCCGACAGCTGCTCTCGGGAGCCGCTCCCGACACCCGAGCCCCGCGGCGCTC
 CCGCTCCCGGCTCCCGGCTCCTGGCTCCCTCCGCTCCCGGCCCTCGCCCCGCGGCCG
 AAGAGGCCCGCTCCCGGTCGGACGCCTGGGTCTGCCGGGAAGAGCGATGAGAGGTGTC
 TGAAGGTGGCTATTCACTGAGCGATGGGTTGGACTTGAAGGAATGCCAAGAGATGCTGC
 CCCCACCCCTTAGGCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTTA
 CTGCTGCTGCTTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTATCCTGCC
 AAGTGGCCTATGCCCTGGGCATGCAGGACCGGACCATCCAGACAGTGACATCTCTGCT
 TCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAGTTGGAGAGCAGTGACGGG
 GATGGGGCCTGGTGCCCGCAGGGTCCGGTGTTCCTCAAGGAGGAGGACTTGCAGGTG
 GATCTACAACGACTGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGC
 CTGGGCAAGGAGTTCTCCCGGAGCTACCGGCTGCGTTACTCCCGGATGGTTCGCCCTGG
 ATGGGCTGGAAGGACCGCTGGGGTCAGGAGGTGATCTCAGGCAATGAGGACCCCTGAGGGA
 GTGGTGTGAAGGACCTTGGGCCCCCATGGTTGCCCGACTGGTTCGCTTCTACCCCGG
 GCTGACCGGGTCATGAGCGTCTGTCTGCCGGTAGAGCTCTATGGCTGCCTCTGGAGGGAT
 GGACTCCTGTCTTACACTGCCCTGTGGGGCAGACAATGATTTATCTGAGGCCGTGTAC
 CTCAACGACTCCACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGGTCTGGGC
 CAGCTGGCAGATGGTGTGGTGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCCGGTC
 TGGCCAGGCTATGACTATGTGGATGGAGCAACCACAGTCTCCTCAGTGGCTATGTGGAG
 ATGGAGTTTGAGTTTGACCGGCTGAGGGCCTTCCAGGCTATGCAGGTCCACTGTAACAAC
 ATGCACACGCTGGGAGCCGCTGCCTGGCGGGTGAATGTCGCTTCCGGCGTGCCCT
 GCCATGGCCTGGGAGGGGAGCCCATGCCACAACTAGGGGGCAACCTGGGGGACCC
 AGAGCCCCGGCTGTCTCAGTGCCCTTGGCGGCCGTGGCTCGCTTCTGCACTGCCGC
 TTCCTCTTGGGGGCCCTGGTTACTCTCAGCGAAATCTCCTCATCTCTGATGTGGT
 AACAACTCTCCGGCACTGGGAGGCACCTTCCGCCAGCCCCCTGGTGCCCGCTGGC
 CCACCTCCCAACTTACGAGCTTGGAGCTGGAGCCAGAGCCAGCAGCCCCGTGGCC



[View online »](#)

```

AAGGCCGAGGGGAGCCCGACCGCCATCCTCATCGGCTGCCTGGTGGCCATCATCCTGCTC
CTGCTGCTCATCATTGCCCTCATGCTCTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAG
GCTGAACGGAGGGTGTGGAAAGAGGAGCTGACGGTTCACCTCTCTGTCCCTGGGGACACT
ATCCTCATCAACAACCGCCAGGTCTAGAGAGCCACCCCGTACCAGGAGCCCCGGCT
CGTGGGAATCCGCCCCACTCCGCTCCCTGTGTCCCAATGGCTCTGCCTACAGTGGGGAC
TATATGGAGCCTGAGAAGCCAGGCGCCCGCTTCTGCCCCACCTCCCCAGAACAAGCGTC
CCCCATTATGCCGAGGCTGACATTGTTACCTGCAGGGCGTCACCGGGGGCAACACCTAT
GCTGTGCCTGCACTGCCCCAGGGCAGTCGGGGATGGGCCCCAGAGTGGATTTCCTT
CGATCTCGACTCCGCTTCAAGGAGAAGCTTGGCGAGGGCCAGTTTGGGGAGGTGCACCTG
TGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAATGTGCGTAAG
GGACACCCCTTTGCTGGTAGTGTCAAGATCTTACGGCCAGATGCCACCAAGAATGCCAGG
AATGATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTGCG
CTGCTGGGCGTGTGTGACAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAAC
GGCGACCTCAACCAGTTCCTCAGTGCCACCAGCTGGAGGACAAGGCAGCCGAGGGGGCC
CCTGGGACCGGCAAGGCTGCGCAGGGGCCACCATCAGTACCCAATGCTGCTGCATGTG
GCAGCCAGATCGCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGTACATCGGGAC
CTGGCCACGCGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGACTTTGGC
ATGAGCCGGAACCTCTATGCTGGGGACTATTACCGTGTGACGGGCCGGGAGTGTGCCC
ATCCGCTGGATGGCTGGGAGTGCATCCTCATGGGGAAGTTCACGACTGCGAGTGACGTG
TGGGCCTTTGGTGTGACCTGTGGGAGGTGCTGATGCTCTGTAGGGCCAGCCCTTTGGG
CAGCTCACCGACGAGCAGGTGATCGAGAACCGGGGGAGTCTTCCGGGACCAGGGCCGG
CAGGTGTACCTGTCCCGCCGCTGCTGCCCCAGGGCCTATATGAGCTGATGCTTCGG
TGCTGGAGCCGGAGTCTGAGCAGCGACCACCTTTTCCAGCTGCATCGGTTCCCTGGCA
GAGGATGCACTCAACACGGTGTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGCGAT
CCAGGGGAAGCCAGTGACACTAAAACAAGAGGACACAATGGCACCTCTGCCCTTCCCTC
CCGACAGCCCATCACCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGGGCCACCCAG
GGAGTGTATGCCCTTCTCCCTTCTGGACACTCTCATGTCCCTTCTGTTCTTCC
TTCCTAGAAGCCCTGTGCCCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCTC
CTCTAGCCATCCCTTGGGAAGGGTGGGAGAAAATATAGGATAGACTGGACATGGCCC
ATTGGAGCACCTGGGCCCACTGGACAACACTGATTCTGGAGAGGTGGTGGCCCCCA
GCTTCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGGGTGAGGAGGA
CAAGAAGGAGAGGAAAATGTTTCTTGTGCCTGCTCCTGTACTTGCCTCAGTTGGGCT
TCTTCTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCAGCCCTCAGT
CACCCCACTTCCCACTTGCACTTGTAGCTAGAACTTCTTAAGCCTATACGTTTCTG
TGGAGTAAATATTGGGATTGGGGGAAAGAGGGAGCAACGGCCATAGCCTTGGGGTTGG
ACATCTCTAGTGTAGTGCCACATTGATTTTCTATAATCACTTGGGGTTGTACATTTT
TGGGGGAGAGACAGATTTTTACTAATAATATGGACCTAGCTTGAGGCAATTTTAAAT
CCCCTGCACTAGGCAGGTAATAATAAAGGTTGAGTTTTCCACAAAAAAAAAAAAAAAAAA

```

Restriction Sites:

Please inquire

ACCN:

NM_001954

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001954.4, NP_001945.3</u>
RefSeq Size:	3840 bp
RefSeq ORF:	2631 bp
Locus ID:	780
UniProt ID:	<u>Q08345</u>
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
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 (1) represents the predominant transcript, and encodes isoform 1 (also known as DDR1a). Variants 1, 7, and 8 encode the same isoform (1).</p>