

## Product datasheet for **SC337613**

### **MCK10 (DDR1) (NM\_001297653) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCK10 (DDR1) (NM_001297653) 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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001297653, the custom clone sequence may differ by one or more nucleotides

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ATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCTCTTGGTGCCAAGTGGAGATGCTGACATGAAGG
GACATTTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGACCATCCCAGACAGTGACAT
CTCTGTTCCAGTCTCTGGTCAGATTCCACTGCCGCCGCCACAGCAGGTTGGAGAGCAGTGACGGGGAT
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TGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGCCTGGGCAAGGAGTCTCCCGGAG
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TGCCACACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACGGGCGAGGCTGCGCAGGGGGCCACC
ATCAGTACCCAAATGCTGCTGCATGTGGCAGCCAGATCGCCTCCGGCATGCGCTATCTGGCCACTCA
ACTTTGTACATCGGGACCTGGCCACGGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGA
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CGCTGGATGGCCTGGGAGTGCATCTCATGGGGAAGTTCAGACTGCGAGTGACGTGTGGCCTTTGGTG
TGACCTGTGGGAGGTGCTGATGCTCTGTAGGGCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTCAT
CGAGAACGCGGGGAGTTCTTCCGGGACCGGGCCGAGGTGTACCTGTCCCGGCCGCTGCTGCCCG
CAGGGCCTATATGAGCTGATGCTTCGGTCTGGAGCCGGGAGTCTGAGCAGCGACCACCTTTCCAGC
TGCATCGGTTCTGGCAGAGGATGCACTCAACACGGGTGA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001297653

**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).

<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>	<u>NM_001297653.1</u> , <u>NP_001284582.1</u>
<b>RefSeq Size:</b>	3722 bp
<b>RefSeq ORF:</b>	2631 bp
<b>Locus ID:</b>	780
<b>UniProt ID:</b>	<u>Q08345</u>
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Gene Summary:</b>	<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 (8) differs in the 5' UTR compared to variant 1. It encodes isoform 1 (also known as DDR1a). Variants 1, 7, and 8 encode the same isoform (1).</p>