

## Product datasheet for SC203729

### MNK2 (MKNK2) (NM\_017572) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** MNK2 (MKNK2) (NM\_017572) Human 3' UTR Clone  
**Symbol:** MNK2  
**Synonyms:** GPRK7; MNK2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pMirTarget (PS100062)  
**ACCN:** NM\_017572  
**Insert Size:** 298 bp  
**Insert Sequence:** >SC203729 3'UTR clone of NM\_017572  
 The sequence shown below is from the reference sequence of NM\_017572. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC
CTGGTCAGAACCGTTACTGTGAATGAGTGAAGATCCTGGAGGACCCTGGGCCCCAGGCCAGCTCCCATC
GCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTTTAAAAGACAAAAAAAAAAAAAAAAAC
CTCAAAAGTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCAATGTACCAGGTGAACTGA
CGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTGTATTCTGTTTTGTAAAGATT
TAATAAAAGTCAAAAACTTGC
ACGCGTAAAGCGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** Sgfl-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_017572.4](#)



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**Summary:**

This gene encodes a member of the calcium/calmodulin-dependent protein kinases (CAMK) Ser/Thr protein kinase family, which belongs to the protein kinase superfamily. This protein contains conserved DLG (asp-leu-gly) and ENIL (glu-asn-ile-leu) motifs, and an N-terminal polybasic region which binds importin A and the translation factor scaffold protein eukaryotic initiation factor 4G (eIF4G). This protein is one of the downstream kinases activated by mitogen-activated protein (MAP) kinases. It phosphorylates the eukaryotic initiation factor 4E (eIF4E), thus playing important roles in the initiation of mRNA translation, oncogenic transformation and malignant cell proliferation. In addition to eIF4E, this protein also interacts with von Hippel-Lindau tumor suppressor (VHL), ring-box 1 (Rbx1) and Cullin2 (Cul2), which are all components of the CBC(VHL) ubiquitin ligase E3 complex. Multiple alternatively spliced transcript variants have been found, but the full-length nature and biological activity of only two variants are determined. These two variants encode distinct isoforms which differ in activity and regulation, and in subcellular localization. [provided by RefSeq, Aug 2011]

**Locus ID:**

2872

**MW:**

11.6