

## Product datasheet for **SC205468**

### MELK (NM\_014791) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MELK (NM_014791) Human 3' UTR Clone
Symbol:	MELK
Synonyms:	HPK38
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014791
Insert Size:	375 bp
Insert Sequence:	>SC205468 3'UTR clone of NM_014791 The sequence shown below is from the reference sequence of NM_014791. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGACATCCTATCTAGCTGCAAGGTATAATTGATGGATTCTCCATCCTGCCGGATGAGTGTGGGTGT
GATACAGCCTACATAAAGACTGTTATGATCGCTTTGATTTAAAGTTCATTGGAACACCAACTTGTTT
CTAAAGAGCTATCTTAAGACCAATATCTCTTTGTTTTAAACAAAAGATATTATTTGTGTATGAATCT
AAATCAAGCCCATCTGTCATTATGTTACTGTCTTTTTAATCATGTGGTTTTGTATTAATAATTGTT
GACTTTCTTAGATTCACCTCCATATGTGAATGTAAGCTCTTAACATGTCTCTTTGTAATGTGAATTT
CTTTCTGAAATAAAACCATTTGTGAATATA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
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.



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RefSeq: [NM\\_014791.4](#)

**Summary:** Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity; phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of apoptosis by phosphorylating and activating MAP3K5/ASK1. Acts as a regulator of cell cycle, notably by mediating phosphorylation of CDC25B, promoting localization of CDC25B to the centrosome and the spindle poles during mitosis. Plays a key role in cell proliferation and carcinogenesis. Required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits BCL2L14, possibly leading to affect mammary carcinogenesis by mediating inhibition of the pro-apoptotic function of BCL2L14. Also involved in the inhibition of spliceosome assembly during mitosis by phosphorylating ZNF622, thereby contributing to its redirection to the nucleus. May also play a role in primitive hematopoiesis.[UniProtKB/Swiss-Prot Function]

Locus ID: 9833

MW: 14.4