

## Product datasheet for **SC213546**

### ZAK (MAP3K20) (NM\_016653) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	ZAK (MAP3K20) (NM_016653) Human 3' UTR Clone
Symbol:	ZAK
Synonyms:	AZK; CNM6; MLK7; mlklak; MLT; MLTK; MLTKalpha; MLTKbeta; MRK; pk; SFMMP; ZAK
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_016653
Insert Size:	1295 bp



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**Insert Sequence:** >SC213546 3'UTR clone of NM\_016653  
 The sequence shown below is from the reference sequence of NM\_016653. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGGGACCACCGTGGATGGAGAACTTTTGATGAATTGAACTACATAGCTTTTCTAAGCAGGTTAAAAAA
AAAAAAAAAAGAAATGTAATGGTTTTTGTATAATGATCCCTTCAGATTGAATTAACGAAAAGACAAC
ACTTCCAGTTTTTGGATTGGAAATACCTTCTAATTGAGACTATAGCCAAACCAGGGCCAAAATTATGG
ATATTGGTCACCCAGTGATCATAACTAGGCTTGAAATCACTACACATATTTTCTGCCTTGAGTGAACA
TTTTTAGAGGAAAGGTTATGCCATCTTTTTACCCTAACCACTGATATTCTGGTTAGCAGGGCCAGGACA
AGGGGAAGGAAAATGAGGTCAACAAAAAATCAAATTTTTAGGAAAAGATAAGATGAATGTTACTGATT
TTTCCTTTTGGCTGAGGCTGCAATATGGCTGGCAAGGCACTGTTACTGATCTTGTCTTTAACATTTTG
ATATTTTGTTCATATAATTTTTGCATTTATTTTTTAAATATTGCATTAATAATATCATTAGCTTGAT
TATCGAGTTTTTGGTTTGGAGTTTTTGTGCTTCTTTTTCTTTCTTTCCCCCTTTTTTTT
TGGATGTCCCCTTAAATTTGTGCCAAGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCCCTGCT
GGTTAGTATTTAGTATTTATTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAACTGATCTG
GCTTGTCATTTTTCAGTAATAAAAAAGTTACTGAATTAATGTTGAATATGATGCATATCTCATTCA
TACGATTTATCAGAAACCAAGATTTAAATTCCTAGATTTGTGGTTCTTTCTCTCCTAAGTCCCAG
CGACTGCTTCAAATACTATTTTCTAAATTTACCAAAGGAGCAAAGAGGATAAAACAACACTCCATAA
AGGCCTCTTGGGATGTCAGAAATCTAAATCTAAAAGAAAACAGACACAGAGCAAGACAATAACATCAC
AAGCTAAAAGCCAGAGAAATTTAAATTTACCAACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTT
GCAGCAAGACAGCTCTGAGCAGCTGTGGGCAAAGAGGTAACCAAGTGGGGTGCAAGGAGACTGTCTGC
AGCTTAGGGCAGAAATGGTGGGATCCAACCTGTGAAATGCTTCATGTTTTACAAACCAAAAAAGTCAGGT
AGCAACAAACTTATTGTATGTCAAATCAATAAATGTTACTTTCAATATTCTGA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
  
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**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\\_016653.3](#)

**Summary:** This gene is a member of the MAPKKK family of signal transduction molecules and encodes a protein with an N-terminal kinase catalytic domain, followed by a leucine zipper motif and a sterile-alpha motif (SAM). This magnesium-binding protein forms homodimers and is located in the cytoplasm. The protein mediates gamma radiation signaling leading to cell cycle arrest and activity of this protein plays a role in cell cycle checkpoint regulation in cells. The protein also has pro-apoptotic activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

**Locus ID:** 51776

MW: 50.8