

Product datasheet for **SC214715**

TAOK1 (NM_020791) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	TAOK1 (NM_020791) Human 3' UTR Clone
Symbol:	TAOK1
Synonyms:	hKFC-B; hTAOK1; KFC-B; MAP3K16; MARKK; PSK-2; PSK2; TAO1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_020791
Insert Size:	2000 bp



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Insert Sequence: >SC214715 3'UTR clone of NM_020791
 The sequence shown below is from the reference sequence of NM_020791. 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
TCCAATGGGTCACACATGCTTATACATAACTTAATAATTGAGAGTGGCAATTCGCTGGAGCTGTCTG
CCAAAAGAAACTGCCTACAGACATCATCACAGCAGCCTCCTCACTTGGGTAAGTACAGTGTGGAAGCTGA
GTGCATATGGTATATTTTATTCATTTTTGTAAAGCGTTCTGTTTTGTGTTTACTAATTGGGATGTCATA
GTACTTGGCTGCCGGTTTGTGTTTTGGGAAATTTGAAAAGTGGAGTTGATATTAATAATAAAT
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CACTCACAGCAGGCAGCATATGTTGAAATAAGTTACTGGTACACACCTGCATTGCCCTACCAGTGT
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TTGATTTTTTCAGAGAGTAGAAAACAACCTAGTTTTTCTTTTTCTGAAATGCGTCATAGGCTTGTGAG
TGATTTTTGTCCATTCAATTGTGCCCTTCTTTGTATTATGATAAGATGGGGTACTTAAGGAGATCACAA
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ACAAATCAGAGTTTCTTACAAGTTATTGCTGCTCCCTTCCAAGTTGTCTTGAAGAATCCTTGCTGCT
AACTCTGGATCCTGCTTTTCTATAGTCAGAGGGCTCCAAGGTAGAATCTCTAAGTCCCTCTCAATGG
CACTCTTTGCCTAGACCAAACTAATGACCAACAGTAATCAATCTATCACTGTTGAAGTCCCTGGTTTTT
TCAACCAAAATTTAAGTCTTTCCAGGTATGTCAGTCGAGTTGCCATGAATCCTCACCTGTAGGAGTT
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-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_020791.4](#)

Summary:

Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress-activated MAPK cascade, DNA damage response and regulation of cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating 'Thr-208' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade.[UniProtKB/Swiss-Prot Function]

Locus ID:

57551

MW:

77