

Product datasheet for **SC114377**

TAOK3 (NM_016281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAOK3 (NM_016281) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAOK3
Synonyms:	DPK; hKFC-A; JIK; MAP3K18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_016281 edited
ATGCGTAAAGGGGTGCTGAAGGACCCAGAGATTGCCGATCTATTCTACAAAGATGATCCT
GAGGAACTTTTTATTGGTTTGCATGAAATTGGACATGGAAGTTTTGGAGCAGTTTATTTT
GCTACAAATGCTCACACCAATGAGGTGGTGGCAATTAAGAAGATGTCCTATAGTGGGAAG
CAGACCCATGAGAAATGGCAAGATTTCTTAAGGAAGTAAATTTTTACGACAATTGAAG
CATCCTAATACTATTGAGTACAAAGGCTGTACTTGAAAGAACACACTGCTTGGTTGGTG
ATGGAATTATTGCTTAGGCTCAGCCTCTGATTTATTAGAAGTTCATAAAAAACCATTCCAG
GAAGTGGAGATCGCTGCCATTACTCATGGAGCCTTGCATGGACTAGCCTACCTACATTCT
CATGCATTGATTCATAGGGATATTAAGCAGGAAATATTCTTCTAACAGAGCCAGGTCAG
GTAAAAGTAGCTGATTTTGGATCTGCTTCAATGGCTTCTCCTGCCAACTCCTTCGTGGGC
ACACCTTACTGGATGGCTCCAGAGGTGATCTTAGCTATGGATGAAGGACAGTATGATGGG
AAAGTTGATATTTGGTCACTTGGCATCACTTGTATTGAATTGGCGGAACGGAAGCCGCC
CTTTTCAACATGAATGCAATGAGTGCCTTATATCACATTGCCAGAATGACTCCCCAACG
TTACAGTCTAATGAATGGACAGACTCCTTTAGGAGATTTGTTGATTACTGCTTGCAGAAA
ATACCTCAGGAAAGGCCAACATCAGCAGAACTATTAAGGCATGACTTTGTTTCGACGAGAC
CGGCCACTACGTGCTCATTGACCTCATACAGAGGACAAAAGATGCAGTTCGTGAGCTA
GATAACCTACAGTACCGAAAAATGAAAAAATACTTTTCCAAGAGACACGGAATGGACCC
TTGAATGAGTACAGGAGGATGAGGAAGACAGTGAACATGGAACCCAGCCTGAACAGGGAA
ATGGACAGCCTGGGCAGCAACCATTCCATTCCAAGCATGTCCGTGAGCACAGGCAGCCAG
AGCAGCAGTGTGAACAGCATGCAGGAAGTCATGGACGAGAGCAGTTCCGAACTTGTGATG
ATGCACGATGACGAAAGCACAATCAATTCCAGCTCCTCCGTGTCGATAAGAAAGATCAT
GTATTCATAAGGGATGAGGCGGGCCACGGCAATCCCAGGCCTGAGCCGCGGCCTACCCAG
TCAGTTACAGGCCAGGCCCTCCACTACCGGAACAGAGAGCGCTTGGCCAGATCAAAATCA
GCATCTTTGGTTACACGACAGATCCATGAGCATGAGCAGGAGAACGAGTTGCGGGGAACAG
ATGTCAGGTTATAAGCGGATGCGGCGCCAGCACCAGAAGCAGCTGATCGCCTGGAGAAC
AAGCTGAAGGCTGAGATGGACGAGCACCCTCAAGCTACAGAAGGAGGTGGAGACGCAT
GCCAACAACTCGTCCATCGAGCTGGAGAAGCTGGCCAAGAAGCAAGTGGCTATCATAGAA
AAGGAGGCAAAGGTAGCTGCAGCAGATGAGAAGAAGTCCAGCAACAGATCTTGGCCAG
CAGAAGAAAGATTTGACAACTTTCTTAGAAAGTCAGAAGAAGCAGTATAAGATTTGTAAG
GAAAAAATAAAAGAGGAAATGAATGAGGACCATAGCACACCCAAGAAAGAGAAGCAAGAG
CGGATCTCCAAACATAAAGAGAACTTGCAGCACACACAGGCTGAAGAGGAAGCCACCTT
CTCACTCAACAGAGACTGTACTACGACAAAAATTTGTCGTTTCTTCAAGCGAAAAATAATG
ATCAAGCGGCACGAGGTGGAGCAGCAGAACATTCGGGAGGAACTAAATAAAAAGAGGACC
CAGAAGGAGATGGAGCATGCCATGCTAATCCGGCACGACGAGTCCACCCGAGAGCTAGAG
TACAGGCAGCTGCACACGTTACAGAAGCTACGCATGGATCTGATCCGTTTACAGCACAG
ACGGAACCTGGAACAGCTGGAGTACAATAAGAGGCGAGAAAGAGAAGTGCACAGAAAG
CATGTCATGGAACCTCGGCAACAGCCAAAAAATTAAGGCCATGGAAATGCAAAATTA
AAACAGTTTCAGGACACTTGCAAAGTACAGACCAACAGTATAAAGCACTCAAGAATCAC
CAGTTGGAAGTTACTCCAAGAATGAGCACAAAAACAATCTTAAAGACACTGAAAGATGAG
CAGACAAGAAAACCTTGCCATTTTGGCAGAGCAGTATGAACAGAGTATAAATGAAATGATG
GCCTCTCAAGCGTTACGGCTAGATGAGGCTCAAGAAGCAGAATGCCAGGCCTTGAGGCTA
CAGCTCCAGCAGGAAATGGAGCTGCTCAACGCCTACCAGAGCAAAATCAAGATGCAAAACA
GAGGCACAACATGAACGTGAGCTCCAGAAGCTAGAGCAGAGAGTGTCTCTGCGCAGAGCA
CACCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTTCAAGAAGAACGCAGCGAGAGA
ATAAAGAACCTATTGAAAGGCAAGAGCGAGAGATTGAACTTTTGACATGGAGAGCCTC
AGAATGGGATTTGGGAATTTGGTTACATTAGATTTTCTAAGGAGGACTACAGATGA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016281 unedited</p> <pre>TTCAGATTTTNGTATACGATCTCACTATAGGGCGGCCGGAATTCGCACGAGGCAAAAAG CGAGCCTGCTCTACTGGCCATCATGCGTAAGGGGTGCTGAAGGACCCAGAGATTGCCGAT CTATTCTACAAAGATGATCCTGAGGAACTTTTTATTGGTTTGCATGAAATTGGACATGGA AGTTTTGGAGCAGTTTTTTTGTACAAATGCTCACACCAATGAGGTGGTGGCAATTAAG AAGATGTCCTATAGTGGGAAGCAGACCCATGAGAAATGGCAAGATATTCTTAAGGAAGTT AAATTTTACGACAATTGAAGCATCCTAATACTATTGAGTACAAAGGCTGTACTTGAAA GAACACACTGCTTGGTTGGTATGGAATATTGCTTAGGCTCAGCCTCTGATTTATTAGAA GTTCAAAAAACCACCTCAGGAAGTGGAGATCGCTGCCATTACTCATGGAGCCTTGCAT GGACTAGCCTACCTACATTCTCATGCATTGATTATAGGGATATTAAGCAGGAAATATT CTTCTAACAGAGCCAGGTCAGGTAAGTACTAGCTGATTTTATAGATCTGCTTCAATGGCTTCT CCTGCCAACTCCTTCGTGGGCACACCTTACTGGATGGCTCCAGAGGTGATCTTAGCTATG GATGAAGGACAGTATGATGGGAAAGTTGATTTTGGTCACTTGGCATCACTTGTATTGAA TTGGCGGAACGGAAGCCGNCCCTTTTACATGAATGCAATGAGTGCCTTATATCACATTG CCCAGAATGACTCCCCACGNTACAGTCTAATGAATGGACAGACTCCCTTANNGAGATTG NNTGATACTGCTTGACAGAAATACCTCAGGAAGGCCACATCAGCAGACTATTAGGCCTGAC TTTGNTCGACGAGACCGCCACTC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016281 unedited</p> <pre>CGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAATGGCAAAAAATTTAAT CTCATCTGTAGTCTCTTAGGAAAATCTAATGTAACCAAAATCCCAAATCCCATTCTGA GGCTCTCCATGTCAAAGTTTCAATCTCTCGCTTTGCCCTTCCAATAGGTTCTTTATTC TCTCGCTGCGTTCCTTCTGAAGGGCAGCCAGCTCCTTCAATCTCTGCTCAAGGTGTG CTCTGCGCAGAGACACTCTCTGCTCTAGCTTCTGGAGCTCACGTTTCAATGTTGTGCCTCTG TTTGCATCTTGATTTTGTCTGGTAGGCGTTGAGCAGCTCCATTTCTGCTGGAGCTGTA GCCTCAAGGCCTGGCATTCTGCTTCTTGAGCCTCATCTAGCCGTAACGCTTGAGAGGCCA TCATTTCAATTTACTCTGTTTACTGCTCTGCCAAAATGGCAAGTTTTCTTGTCTGCT CATCTTTCAGTGTCTTTAAGATTGTTTTGTGCTCATTCTTTGGAGTAACCTCCAAGTGGT GATTTTGAGTGTCTTATACTGTTTGGTCTGTACTTTGCAAGTGTCTGAAACTGTTTTT TAATTTGCATTTCCATGGCCTTTAAGTTTTTTGGCTGTTGCCGAAGTTCCATGACATGCT TTCTGTGCAAGTTCTTTCTCGCCTCTTATTGTAAGTCCAGCTGGTTTTCCAGTTCGGTCT GGTGTGTAAACGGATCAGATCCATGCGTAGCTTCTGTAAAGTGTGACAGTGCCTGTACT CTAGCTCTCGGNTGGACTCGTCGTGCCGATANCATGGCATGCTCCATCTCCTTCTGGGT CCTCTCTNATTTAGTCCCTCCCGATGTTCTGCTGCTCCACCTCGTGCCCGCTGATCTT ATTTTCCGCTTGAGGACGACNATTTTGTGATACAGTCTCTGTGATGAAAAGGGGGCTT CTCTCACCTGGGGGGCTCAGTTTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_016281
Insert Size:	2850 bp
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).
Components:	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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_016281.2](#), [NP_057365.2](#)

RefSeq Size: 4188 bp

RefSeq ORF: 2697 bp

Locus ID: 51347

UniProt ID: [Q9H2K8](#)

Cytogenetics: 12q24.23

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a serine/threonine protein kinase that activates the p38/MAPK14 stress-activated MAPK cascade but inhibits the basal activity of the MAPK8/JNK cascade. The encoded protein is a member of the GCK subfamily of STE20-like kinases. [provided by RefSeq, Oct 2016]
Transcript Variant: This variant (2), as well as variants 3 and 4, encodes isoform b.