

Product datasheet for **SC323536**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323536 sequence for NM_016281 edited (data generated by NextGen Sequencing)

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ATGCGTAAAGGGGTGCTGAAGGACACAGAGATTGCCGATCTATTCTACAAAGATGATCCT
GAGGAACTTTTTATTGGTTTGCATGAAATTGGACATGGAAGTTTTGGAGCAGTTATTTT
GCTACAAATGCTCACACCAATGAGGTGGTGGCAATTATGAAGATGTCCTATAGTGGGAAG
CAGACCCATGAGAAATGGCAAGATATTCTTAAGGAAGTTAAATTTTTACGACAATTGAAG
CATCCTAATACTATTGAGTACAAAGGCTGTTACTTGAAAGAACACACTGCCTTGGTTGGTG
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GAAGTGGAGATCGCTGCCATTACTCATGGAGCCTTGCATGGACTAGCCTACCTACATTCT
CATGCATTGATTCATAGGGATATTAAGCAGGAAATATTCTTCTAACAGAGCCAGGTCAG
GTAAAAC TAGCTGATTTTGGATCTGCTTCAATGGCTTCTCCTGCCAACTCCTTCGTGGGC
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CTTTTCAACATGAATGCAATGAGTGCCTTATATCACATTGCCCAGAATGACTCCCCAACG
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GAGGCACAACATGAACGTGAGCTCCAGAAGCTAGAGCAGAGAGTGTCTCTGCGCAGAGCA
CACCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTT CAGAAGGAACGCAGCGAGAGA
ATAAAGAACCTATTGAAAGGCAAGAGCGAGAGATTGAACTTTTGACATGGAGAGCCTC
AGAATGGGATTTGGGAATTTGGTTACATTAGATTTTCTAAGGAGGACTACAGATGA

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Clone variation with respect to NM_016281.3
 25 c=>a;140 g=>a;158 a=>t;320 c=>a;1231 g=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_016281 unedited CCCGCCGTCTCAGCAAAGGGCGGTAGGCGCTGTACGGTTGGGAGGTTCTATATAAGCAGAGCTCGTTTA GTGAACCGTCAGAATCCTGTAATACGACTACTATAGGGCGGCCGGAATTTCCGGCAGAGGCAAAAAGC AGAGCCTGCTCTACTGGCCATCATGCGTAAAGGGGCGCTGAAGGACACAGAGATTGCCGATTCTATTCTA CAAAGATGACTCCTGAGGAACTTTTATTGGTTTGCATGAAATTGGACATGGAAGCTTTGGAGCAGTTTA TTTTGTACAAAATGCTCACACCAATGAGGTGGTGGCAATTATGAAGATGCCTATAGTGGGAAGCAGAC CCATGAGAAAATGGCAAGATATTTCTTTAAGGAAGTTAAATTTTTTACGACAATTTGAAGCATCCCTAA TACTATTTGAGTTACAAAAGGCTGTACTTTGAAAGAACAACACTGCTTTGTTGGTTGATTGAATTATTG CTAAGGCCTAACCCCTTCTGATTTATTTAGAAGTTCATAAAAAAACCACTTCCAGGAGTTGGAGATTGCC TGGCCATTAATAATGGGACCCTTGCATGACCTAGCTCACCTCCCTTTCTATTGCATTTGATCATTAGGG ATTATAAGCCAAGGAATATTTTTTCAAACGAAGCCAGTTCAGGTAACACTGCTGGATTTGGATCTCTGC TTATAGGGTCTTCTGGCCATCTTTCGCTGGACACACTATACGGGTGTGTCTCGAGGTGTGATCTATCTG TGAAGAGACTTGATGTGGAATGTATTGGCACCTGGACACATGGATGAATGCGGACGAGAACGCGCCTTTC ACGATGCCGAAGTCTCTATACACATGCGCAATGATCCAGTCAGCGTAGTTGGCACTCTAGAATTGT GTACTGTGCAACCTGAGGACATCGACATTACGACTTGCAGCGCACTAGTCTAAC
Kinase Domain Sequence:	>SC323536 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CRAWGWCTGAGGACTTTTTATTGGTTTGCATGAATTGGACATGGAAGTTTTGGAGCAGTTTATTTTGCTA CAAATGCTCACACCAATGAGGTGGTGGCAATTATGAAGATGCCTATAGTGGGAAGCAGACCCATGAGAA ATGGCAAGATATTTCTTAAGGAAGTTAAATTTTTACGACAATTGAAGCATCCTAATACTATTGAGTACAAA GGCTGTTACTTGAAAGAACAACACTGCTTGGTTGGTGTGATGAATAT
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<ol style="list-style-type: none"> 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:	<p>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]</p> <p>Transcript Variant: This variant (2), as well as variants 3 and 4, encodes isoform b.</p>