

Product datasheet for SC117141

TAOK2 (NM_004783) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAOK2 (NM_004783) Human Untagged Clone
Tag: Tag Free
Symbol: TAOK2
Synonyms: MAP3K17; PSK; PSK1; PSK1-BETA; TAO1; TAO2
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004783 edited
 ATGCCAGCTGGGGGCCGGGGAGCCTGAAGGACCCAGATGTGGCTGAGCTCTTCTTC
 AAGGATGACCCAGAAAAGCTCTTCTCTGACCTCCGGGAAATTGGCCATGGCAGCTTTGGA
 GCCGTATACTTTGCCCGGATGTCCGGAATAGTGAGGTGGTGGCCATCAAGAAGATGTCC
 TACAGTGGGAAGCAGTCCAATGAGAAATGGCAAGACATCATCAAGGAGGTGCGGTTCTTA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004783 unedited
NNGGGTCCAGGAATTNTGTATACGAACACTACTATAGGGCGGCCGGAATTCGCACAGGT
GACCCCTACCAGGCCAGGCCACTCTCAGGGCCCCAGGGGCCACCATGCCAGCTGGGG
GCCGGGCCGGGAGCCTGAAGGACCAGATGTGGCTGAGCTCTTCTTCAAGGATGACCCAG
AAAAGCTCTTCTGACCTCCGGGAAATTGGCCATGGCAGCTTTGGAGCCGTATACTTTG
CCCGGGATGTCCGGAATAGTGAGGTGGTGGCCATCAAGAAGATGCTTACAGTGGGAAGC
AGTCCAATGAGAAATGGCAAGACATCATCAAGGAGGTGCGGTTCTTACAGAAGCTCCGGC
ATCCCAACACCATTAGTACCGGGGCTGTTACCTGAGGGAGCACACGGCTTGGCTGGTAA
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TGAAGCTAGGGGACTTTGGTTCTGCGTCCATCATGGCACCTGCCAACTCCTTCGTGGGCA
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AAGTGGACGTCTGGTCTTGGGGATAACCTGCATCGAGCTGGCTGAACGGAAACCCGC
TCTTTAACATGAATGCGATGAGTGCCTTATACCACATTGCACAGAACGAATCCCCGTGC
TCCAGTCAGGACACTGGNTCTGAGTACTCCGGNAATTTGTCGACTCCTGTCTTCAGAAA
TCCCTCAGAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004783 unedited CCCCCCATGGGGTGCAAACCGTACTAAGACTTCCGGGGCTCTGGCCGCCACACTG ATTTGGCTCCCACGACTGCCCCCAGGCCTGGGAGCAGCCCTTCCAGGTCCTTCCCTTG TTTCCCGCCCCAGCCCTGATCCCAATAAAAAAAAAAAAAAAAAAGATAAAGGACAAGAC GGCACAGGACGTGACAGATTACGGGGAATATACTATTTTCATCCTGACCCCAAGACCCCA TCCTGATCCTTCTGCCAGTAAGGTGGCCTCTCATTCTCCCTGCCTCAGGCCAGACCT GCTCTGCCCTGTGGCAGGGCTGACGGCCTCATTGTGAGGGTAGTATACGCTCTGAATAT AGTGTGTCTAAACCCACCTTTCCTCTCCCCTGGGCACTACATGAATATTCGCCACGCAC ATGCTCCCTTCTTCTAGTTGGCGGAGGCTTACCCCTGGCACCCATGGTTTGGAGGCAG GGACTCCCAATCGCGCAGGGGGACCAATCACTAACTGTGCCGTTGCCCTGGCTCACC CCGCACACACCTCATACTATTTGATGTCTGAGCGTTGACTGAAGCCTAGCGTTGCTTTC CCTCAATCTCGCAAGGGACGTGCGCCTACCCCCATCACAAGCCCGGCTTACCACCTCT TAGCCGGAGAAAGAAGATCGTCACTCCCCACGGCCTAACCCCTCACTTAATATCGGGGCA CCCCCGCGCACTCTGGCATCGCGGATTCTGTTCTCCCCGCGCTCAGTTCTGGTTATACT TATGACGATCGTATCCCCCTCGCCTCACTCTTTACCCACTTCTGTTGCGTCCGCGCT TAGGTGCGAGAGCGCCGGTCTTCGTGGAATCTACGCTCTACCCCGGTCGTCTTCTCT CTTTCGCCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_004783
Insert Size:	4000 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:	<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_004783.2 , NP_004774.1
RefSeq Size:	4625 bp
RefSeq ORF:	3150 bp
Locus ID:	9344
UniProt ID:	Q9UL54
Cytogenetics:	16p11.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: MAPK signaling pathway

Gene Summary: This gene encodes a serine/threonine protein kinase that is involved in many different processes, including, cell signaling, microtubule organization and stability, and apoptosis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]
Transcript Variant: This variant (2) contains alternate exons at the 3' end compared to variant 1. This results in a shorter isoform (2, also known as PSK1-beta) with a distinct C-terminus compared to isoform 1.