

Product datasheet for **RN213390**

Taok3 (NM_001024254) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taok3 (NM_001024254) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Taok3
Synonyms:	JIK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213390 representing NM_001024254
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTAAAGGAGTGCTGAAGGACCCCGAGATTGCCGAGCTGTTCTTCAAGGAGGACCCGAAGAGCTCT
 TTATCGACCTGCATGAAATCGGACATGGCAGCTTTGGAGCCGTGACTTCGCAACTAATGCGCACACCAA
 CGAGGTGGTTGCTATTAAGAAAATGTCCTACAGTGGGAAGCAGACCCACGAGAAATGGCAAGATATCCTG
 AAGGAAGTTGATTCTCCAGCAGCTGAAGCACCCGAACACCATCGAGTACAAAGGCTGTTATTTAAAGG
 AGCACACCCGCTTGGTTGGTGATGGAGTACTGCTTAGGTTACAGCCTCTGACTTGTTAGAAGTTCATAAGAA
 ACCACTTCAGGAAGTAGAGATTGCTGCTATCACCCATGGTGCCTTGACAGGGGCTGGCCTACCTCCACTTT
 CACTCCCTGATTCACAGGGACATTAAGCAGGGAATATCCTCCTCACAGAGCCAGGCCAGGTGAAGCTGG
 CTGACTTCGGGTCGGCTCCATGGCTTCTCCTGCCAACTCCTTCGTGGGACTCCTTACTGGATGGCCCC
 AGAGGTGATCTTAGCCATGGACGAAGGGCAGTACGACGGGAAAGTTGACATCTGGTCACTCGGCATCACC
 TGCATAGAGCTGGCGGAGCGGAAGCCCCCTCTTCAACATGAACGCCATGAGCGCCTCTACCACATCG
 CTCAGAATGACTCCCCACGCTGCAGTCCAGAGAATGGACAGACTCCTTCAGGAGATTGTTGATTACTG
 CTTGCACAAAATACCTCAGGAACGACCGCCGCGGAACTGTTGCGGCACGACTTCATTTCGGAGGGAG
 CGGCCCGCGAGGGTCTCATTGACCTCATAACAGAGGACGAAAGATGCTGTCCGAGAGCTGGACAACCTGC
 AGTACAGGAAAATGAAGAAGATCCTCTTCCAGGAGACTCGGAACGGACCCCTGAATGAGTACAAGAAGA
 GGAAGAAGACAGTGAAGCAAGGAAGCAACCTGAACCGAGAGGTGGACAGTCTGGGGAGCATCCACTCCATC
 CCCAGCGTGTGAGTGAAGCAGGGCAGCCGAGCAGCGTGAACAGCATGCAGGAGGTCTGGAGGAGG
 GCAGCCCTGAGCTCGTCAATGATGACGAGGATGAAGGCACAGTCAACTCCAGCTCCTCTATGGTACACAA
 GAAGGATCATGTATTTCGTAAGGGATGAGGCGGGCCACGGCGATCCAGGCCTGAGCCGCGGCTACCCAG
 TCAGTTACAGGCCGGCCCTCCACTATCGGAACCGAGAGCGCTTTGCCACGATCAAAATCCCGCTTTTGG
 TTACACGGCAGATCCACGAGCATGAGCAGGAGAACGAGCTGCGGGAACAGATGTCAGGTTATAAGCGGAT
 GCGGGCCAGCACCAGAAGCAGCTGATCGCCCTGGAGAACAAGCTGAAGGCTGAGATGGATGAGCACCCG
 CTCAGCTCCAGAAGGAGGTGGAGACGCATGCCAACAACCTCGTCCATCGAGCTGGAGAAGCTGGCCAAGA
 AGCAAGTGGCTACCATAGAAAAGGAGGCAAAAGGTAGCCGACGCGGATGAGAAGAAGTCCAGCAGCAGAT
 CCTGGCCAGCAGAAGAAGGACTTGACAACCTTTCTTAGAAAGTCAAGAAGAAGCAGTACAAGATTTGTAAG
 GAGAAAATAAAAGAGGAAATGAACGAGGACCATAGCACACCCAAGAAGGAGAAGCAGGAGCGCATATCGA
 AGCATAAAGAGAACCTGCAGCACACGACGAGCCGAGGAGGAAGCCACCTGCTCACGCAACAGAGGCTGTA
 CTACGACAGAAACTGCCGCTGCTTCAAGCGGAAAATAATGACCAAGCGCCACGAGGTGGAACAGCAGAAC
 ATTCGGGAGGAACTAAATAAAAAGAGGACCCAGAAAAGAAATGGAGCACGCCATGCTGATCCGGCATGATG
 AATCCACCCGAGAGCTCGAGTACAGACAGCTGCACACACTGCAGAAGCTCCGCATGGACCTGATCCGGTT
 ACAGCACCAGACTGAGCTGGAGAACCAGCTGGAGTACAATAAGAGGCGGGAGCGGGAGCTGCACCCGGAAG
 CACGTCATGGAGCTTCGGCAACAGCCGAAAAACTTAAAGGCCATGGAAATGCAAATTAAGAGCAGTTTC
 AGGACACTTGCAAAGTACAGACCAACAGTACAAAGCACTCAAAAACCACCAAGTTGGAAGTCACTCCAAA
 GAATGAGCACAAAAGCAATCCTAAAGCACTGAAGGAGGAGCAGACGAGGAAGCTGGCCATCTTGGCCGAG
 CAGTATGAACAGAGTATAAACGAGATGATGGCCTCTCAAGCGTTACGGCTAGACGAGGCGCAAGAGGCAG
 AATGCCAGGCTTGGAGCTACAGCTCCAGCAGGAGATGGAGCTGCTCAACGCCTACCAGAGCAAAAATCAA
 GATGCAAACGGAGGCCAGCAGCAGCGAGCTGCAGAAGCTAGAGCAGAGGGTGTCCCTGCGCAGAGCG
 CATCTTGAGCAGAAGATTGAAGAGGAGCTGGCCGCCCTGCAGAAGGAACGCAGTGAAGGATCAAGACTC
 TCCTGGAAAGACAAGAGCGAGAGACCGAGACTTTTGACATGGAGAGCCTCAGAATGGGGTTTGGGAATTT
 GGTGACATTAGATTTTCTAAGGAGGACTATAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001024254

Insert Size:	2697 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:	<u>NM_001024254.1</u> , <u>NP_001019425.1</u>
RefSeq Size:	2820 bp
RefSeq ORF:	2697 bp
Locus ID:	304530
UniProt ID:	<u>Q53UA7</u>
Cytogenetics:	12q16
Gene Summary:	Serine/threonine-protein kinase that acts as a regulator of the p38/MAPK14 stress-activated MAPK cascade and of the MAPK8/JNK cascade. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade. 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 upstream MAP2K3 and MAP2K6 kinases. Inhibits basal activity of MAPK8/JNK cascade and diminishes its activation in response epidermal growth factor (EGF) (By similarity).[UniProtKB/Swiss-Prot Function]