

Product datasheet for **MC222498**

Taok3 (NM_001081308) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taok3 (NM_001081308) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Taok3
Synonyms:	2900006A08Rik; A130052D22; A430105I05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222498 representing NM_001081308
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTAAAGGGGCACTGAAGGACCCAGAGATTGCTGATCTGTTCTTCAAGGATGACCCCGAAGAGCTTT
 TTATCGATTTGCATGAAATTGGACATGGGAGCTTTGGAGCCGTGACTTTGCGACAAATGCGCACACCAA
 CGAGGTGGTCGCTGTTAAGAAAATGTCCTACAGTGGGAAGCAGACCCATGAGAAATGGCAAGATATCCTT
 AAGGAAGTTAAGTTTCTGCAGCAGCTGAAGCATCCTAACACCATCGAGTACAAAGGCTGTTATTTAAAGG
 AGCACACTGCATGGTTGGTGGAGTACTGCCTAGGTTACAGCCTCTGACTTGTAGAAAGTTCATAAGAA
 ACCACTTCAGGAAGTGGAGATCGCTGCTATCACCCATGGTGCCTTGACAGGGGCTGGCCTACCTCCACTTT
 CACTCCCTGATTCACAGGGACATTAAGCAGGGAAACATCCTCCTCACAGAGCCAGGTGAGTGAAGCTGG
 CTGACTTCGGATCTGCCTCCATGGCTTCTCCCGCAACTCCTTTGTGGGACTCCTTACTGGATGGCCCC
 AGAGGTAATCTTAGCTATGGACGAAGGGCAGTACGACGGGAAAGTTGACATCTGGTTCGCTGGCATCACC
 TGATAGAGTTGGCGGAGCGGAAGCCCCCTTCAACATGAACGCCATGAGCGCCTCTACCACATCG
 CTCAGAATGACTCCCCACGCTACAGTCCAGGGAATGGACAGACTCCTTCAGGAGATTGTTGATTACTG
 CTTGCACAAAATACCTCAGGAAAGACCAGCCGGTGGAGCTGTTGCGGCATGACTTCATTTCGGAGGGAG
 CGGCCACCGAAGTCTCATTGATCTCATAACAGAGGACAAAAGATGCTGTCCGAGAGCTGGACAACCTGC
 AGTACAGGAAAATGAAGAAGATCCTCTTCCAGGAGACTCGGAACGGACCCCTTGAATGAGTCGCAAGAAGA
 AGAAGAAGATGGTGGAGCAAGGAAGCAACCTGAACCGAGAGGTGGACAGTCTGGGCAGCATCCACTCCATT
 CCCAGCACATCAGTGAGCACAGGCAGCCGAGCAGTGTGAACAGCATGCAGGAGGTCATGGATGAGA
 GCAGCTTGAGCTCGTCATGATGCAGGAGGATGAAGGCACAGCCAACTCCAGCGCCTCCACGGTACACAA
 GAAGGATCATGTATTTCGTAAAGGATGAGGCGGGCCACGGCGATCCAGGCCTGAGCCGCGGCTACCCAG
 TCAGTTACAGGCCGGCCCTCCACTATCGGAACCGAGAGCGCTTTGCCACGATCAAATCCCGCTTTTGG
 TTACACGGCAGATCCATGAGCATGAGCAGGAGAACGAGCTGCGGGAACAGATGTCAGGTTATAAGCGGAT
 GCGGCGCCAGCACCAGAAGCAGCTGATCGCCCTGGAGAACAAGCTGAAGGCTGAGATGGATGAGCACCCG
 CTCAGCTCCAGAAGGAGGTGGAGACGCACGCCAACAACCTCGTCCATCGAGCTGGAGAAGCTGGCCAAGA
 AGCAAGTGGCTACCATAGAAAAGGAGGCAAAAGGTAGCCGACGCGGATGAGAAGAAGTTCAGCAGCAGAT
 CCTGGCCAGCAGAAGAAGGACTTGACAACCTTTCTTAGAAAGTCAAGAAGAAGCAGTACAAGATTTGTAAG
 GAGAAAATAAAAGAGGAAATGAACGAGGACCATAGCACACCCAAGAAGGAGAAGCAGGAGCGGATATCGA
 AGCATAAAGAAAACCTGCAGCACAGCAGGCCGAGGAGGAAGCCACCTGCTCAACAGAGGCTGTA
 CTACGACAGAAACTGCCGCTTCTCAAACGGAAAATAATGATCAAGCGCCACGAGGTGGAACAGCAGAAC
 ATTCGGGAGGAATTAATAAGAAGAGGACCCAGAAGGAAATGGAGCACGCCATGCTGATCCGGCATGATG
 AATCCACCCGAGAGCTGGAGTACAGGCAGCTGCACACCCTGCAGAAGCTCCGCATGGATCTGATCCGGCT
 GCAGCACCAGACGGAAGTGGAGAACCAGCTGGAGTACAATAAGAGGCGGGAGCGGAGCTGCACCCGGAAG
 CACGTCATGGAGCTTCGGCAACAGCCGAAAAACTTAAAGGCCATGGAAATGCAAATTAACAAACAGTTTC
 AGGACACTTGCAAAGTACAGACCAACAGTACAAAGCCCTCAAAAATCACCAGTTGGAAGTCACTCCAAA
 GAATGAGCACAAAAGCAATCCTAAAGCACTGAAGGACGAGCAGAGGAAAGTGGCCATTTTGGCCGAG
 CAGTATGAACAGAGTATAAACGAGATGATGGCCTCTCAAGCGTTACGGCTAGACGAGGCACAAGAGGCAG
 AGTGCCAGGCTTGGAGTACAGCTCCAGCAGGAGATGGAGCTGCTCAACGCCTACCAGAGCAAAAATCAA
 GATGCAAACGGAGGCCAGCAGCAGCGAGCTACAGAAGCTAGAGCAGAGGGTGTCCCTGCGCAGAGCG
 CATCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTGCAGAAGGAACGCAGTGAAGGATCAAGACTC
 TCCTGGAGAGACAAGAGCGAGAGACCGAGACTTTTGACATGGAGAGCCTCAGAATGGGCTTTGGGAATTT
 GGTGACATTAGATTTTCTAAGGAGGACTATAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081308

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_001081308.2</u> , <u>NP_001074777.1</u>
RefSeq Size:	4258 bp
RefSeq ORF:	2697 bp
Locus ID:	330177
UniProt ID:	<u>Q8BYC6</u>
Cytogenetics:	5 F
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses a different segment and lacks an alternate exon in its 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>