

Product datasheet for **MC229137**

Taok3 (NM_001199685) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taok3 (NM_001199685) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Taok3
Synonyms:	2900006A08Rik; A130052D22; A430105I05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229137 representing NM_001199685
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTAAAGGGGCACTGAAGGACCCAGAGATTGCTGATCTGTTCTTCAAGGATGACCCCGAAGAGCTTT
 TTATCGATTTGCATGAAATTGGACATGGGAGCTTTGGAGCCGTGACTTTGCGACAAATGCGCACACCAA
 CGAGGTGGTCGCTGTTAAGAAAATGTCCTACAGTGGGAAGCAGACCCATGAGAAATGGCAAGATATCCTT
 AAGGAAGTTAAGTTTCTGCAGCAGCTGAAGCATCCTAACACCATCGAGTACAAAGGCTGTTATTTAAAGG
 AGCACACTGCATGGTTGGTGGTGGAGTACTGCCTAGGTTACAGCCTCTGACTTGTAGAAAGTTCATAAGAA
 ACCACTTCAGGAAGTGGAGATCGCTGCTATCACCCATGGTGCCTTGACAGGGGCTGGCCTACCTCCACTTT
 CACTCCCTGATTCACAGGGACATTAAGCAGGGAACATCCTCCTCACAGAGCCAGGTGAGTGAAGCTGG
 CTGACTTCGGATCTGCCTCCATGGCTTCTCCCGCAACTCCTTTGTGGGACTCCTTACTGGATGGCCCC
 AGAGGTAATCTTAGCTATGGACGAAGGGCAGTACGACGGGAAAGTTGACATCTGGTTCGCTTGGCATCACC
 TGCATAGAGTTGGCGGAGCGGAAGCCCCCTCTTCAACATGAACGCCATGAGCGCCTCTACCACATCG
 CTCAGAATGACTCCCCACGCTACAGTCCAGGGAATGGACAGACTCCTTACAGGAGATTGTTGATTACTG
 CTTGCACAAAATACCTCAGGAAAGACCAGCCGCGGTGGAGCTGTTGCGGCATGACTTCATTCCGGAGGGAG
 CGGCCACCGAAGGTCTCATTGATCTCATAACAGAGGACAAAAGATGCTGTCCGAGAGCTGGACAACCTGC
 AGTACAGGAAAATGAAGAAGATCCTCTTCCAGGAGACTCGGAACGGACCCCTTGAATGAGTCGCAAGAAGA
 AGAAGAAGATGGTGGAGCAAGGAAGCAACCTGAACCGAGAGGTGGACAGTCTGGGCAGCATCCACTCCATT
 CCCAGCACATCAGTGGACACAGGCAGCCGAGCAGCAGTGTGAACAGCATGCAGGAGGTCATGGATGAGA
 GCAGCTTGAGCTCGTCAATGATGCAGGAGGATGAAGGCACAGCCAACTCCAGCGCCTCCACGGTACACAA
 GAAGGATCATGTATTTCGTAAGGGATGAGGCGGGCCACGGCGATCCAGGCCTGAGCCGCGGCTACCCAG
 TCAGTTACAGGCCGGCCCTCCACTATCGGAACCGAGAGCGCTTTGCCACGATCAAAATCCCGCTTTTGG
 TTACACGGCAGATCCATGAGCATGAGCAGGAGAACGAGCTGCGGGAACAGATGTCAGGTTATAAGCGGAT
 GCGGCGCCAGCACCAGAAGCAGCTGATCGCCCTGGAGAACAAGCTGAAGGCTGAGATGGATGAGCACCCG
 CTCAGCTCCAGAAGGAGGTGGAGACGCACGCCAACAACCTCGTCCATCGAGCTGGAGAAGCTGGCCAAGA
 AGCAAGTGGCTACCATAGAAAAGGAGGCAAAAGGTAGCCGACGCGGATGAGAAGAAGTCCAGCAGCAGAT
 CCTGGCCAGCAGAAGAAGGACTTGACAACCTTTCTTAGAAAGTCAAGAAGAAGCAGTACAAGATTTGTAAG
 GAGAAAATAAAAGAGGAAATGAACGAGGACCATAGCACACCCAAGAAGGAGAAGCAGGAGCGGATATCGA
 AGCATAAAGAAAACCTGCAGCACAGCAGGCCGAGGAGGAAGCCACCTGCTCAACAGAGGCTGTA
 CTACGACAGAAACTGCCGCTTCTCAAACGGAAAATAATGATCAAGCGCCACGAGGTGGAACAGCAGAAC
 ATTCGGGAGGAATTAATAAGAAGAGGACCCAGAAGGAAATGGAGCACGCCATGCTGATCCGGCATGATG
 AATCCACCCGAGAGCTGGAGTACAGGCAGCTGCACACCCTGCAGAAGCTCCGCATGGATCTGATCCGGCT
 GCAGCACCAGACGGAAGTGGAGAACCAGCTGGAGTACAATAAGAGGCGGGAGCGGGAGCTGCACCCGGAAG
 CACGTCATGGAGCTTCGGCAACAGCCGAAAAACTTAAAGGCCATGGAAATGCAAATTAACAAACAGTTTC
 AGGACTTTGCAAAGTACAGACCAACAGTACAAAGCCCTCAAAAATCACCAGTTGGAAGTCACTCCAAA
 GAATGAGCACAAAAGCAATCCTAAAGACTGAAGGACGAGCAGAGGAAAGTGGCCATTTTGGCCGAG
 CAGTATGAACAGAGTATAAACGAGATGATGGCCTCTCAAGCGTTACGGCTAGACGAGGCACAAGAGGCAG
 AGTGCCAGGCTTGGAGTACAGCTCCAGCAGGAGATGGAGCTGCTCAACGCCTACCAGAGCAAAAATCAA
 GATGCAAACGGAGGCCAGCAGCAGCGAGCTACAGAAGCTAGAGCAGAGGGTGTCCCTGCGCAGAGCG
 CATCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTGCAGAAGGAACGCAGTGAAGGATCAAGACTC
 TCCTGGAGAGACAAGAGCGAGAGACCGAGACTTTTGACATGGAGAGCCTCAGAATGGGCTTTGGGAATTT
 GGTGACATTAGATTTTCTAAGGAGGACTATAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001199685

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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001199685.1</u> , <u>NP_001186614.1</u>
RefSeq Size:	4366 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 (1) represents the longest transcript. 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>