

Product datasheet for **MR231349**

Taok3 (NM_183306) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taok3 (NM_183306) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR231349 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTAAAGGGGCACTGAAGGACCCAGAGATTGCTGATCTGTTCTTCAAGGATGACCCCGAAGAGCTTT
 TTATCGATTTGCATGAAATTGGACATGGGAGCTTTGGAGCCGTGACTTTGCGACAAATGCGCACACCAA
 CGAGGTGGTCGCTGTTAAGAAAATGTCCTACAGTGGGAAGCAGACCCATGAGAAATGGCAAGATATCCTT
 AAGGAAGTTAAGTTTCTGCAGCAGCTGAAGCATCCTAACACCATCGAGTACAAAGGCTGTTATTTAAAGG
 AGCACACTGCATGGTTGGTGGTGGAGTACTGCCTAGGTTACAGCCTCTGACTTGTAGAAAGTTCATAAGAA
 ACCACTTCAGGAAGTGGAGATCGCTGCTATCACCCATGGTGCCTTGACAGGGGCTGGCCTACCTCCACTTT
 CACTCCCTGATTCACAGGGACATTAAGCAGGGAAACATCCTCCTCACAGAGCCAGGTGAGTGAAGCTGG
 CTGACTTCGGATCTGCCTCCATGGCTTCTCCCGCAACTCCTTTGTGGGACTCCTTACTGGATGGCCCC
 AGAGGTAATCTTAGCTATGGACGAAGGGCAGTACGACGGGAAAGTTGACATCTGGTCGCTTGGCATCACC
 TGATAGAGTTGGCGGAGCGGAAGCCCCCTTCAACATGAACGCCATGAGCGCCTCTACCACATCG
 CTCAGAATGACTCCCCACGCTACAGTCCAGGGAATGGACAGACTCCTTCAGGAGATTGTTGATTACTG
 CTTGCACAAAATACCTCAGGAAAGACCAGCCGCGGTGGAGCTGTTGCGGCATGACTTCATTTCGGAGGGAG
 CGGCCACCGAAGTCTCATTGATCTCATAACAGAGGACAAAAGATGCTGTCCGAGAGCTGGACAACCTGC
 AGTACAGGAAAATGAAGAAGATCCTCTTCCAGGAGACTCGGAACGGACCCCTTGAATGAGTCGCAAGAAGA
 AGAAGAAGATGGTGGAGCAAGGAAGCAACCTGAACCGAGAGGTGGACAGTCTGGGCAGCATCCACTCCATT
 CCCAGCACATCAGTGGACACAGGCGAGCCGAGCAGTGTGAACAGCATGCAGGAGGTCATGGATGAGA
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 GCGGCGCCAGCACCAGAAGCAGCTGATCGCCCTGGAGAACAAGCTGAAGGCTGAGATGGATGAGCACC
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 AGCAAGTGGCTACCATAGAAAAGGAGGCAAAAGGTAGCCGACGCGGATGAGAAGAAGTTCAGCAGCAGAT
 CCTGGCCAGCAGAAGAAGGACTTGACAACCTTTCTTAGAAAGTCAAGAAGAAGCAGTACAAGATTTGTAAG
 GAGAAAATAAAAGAGGAAATGAACGAGGACCATAGCACACCCAAGAAGGAGAAGCAGGAGCGGATATCGA
 AGCATAAAGAAAACCTGCAGCACAGCAGGCCGAGGAGGAAGCCACCTGCTCAACAGAGGCTGTA
 CTACGACAGAAACTGCCGCTTCTCAAACGGAAAATAATGATCAAGCGCCACGAGGTGGAACAGCAGAAC
 ATTCGGGAGGAATTAATAAGAAGAGGACCCAGAAGGAAATGGAGCACGCCATGCTGATCCGGCATGATG
 AATCCACCCGAGAGCTGGAGTACAGGCAGCTGCACACCCTGCAGAAGCTCCGCATGGATCTGATCCGGCT
 GCAGCACCAGACGGAACCTGGAGAACCAGCTGGAGTACAATAAGAGGGCGGAGCGGAGCTGCACCCGGAAG
 CACGTCATGGAGCTTCGGCAACAGCCGAAAAACTTAAAGGCCATGGAAATGCAAATTAACAAACAGTTTC
 AGGACACTTGCAAAGTACAGACCAACAGTACAAAGCCCTCAAAAATCACCAGTTGGAAGTCACTCCAAA
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 CAGTATGAACAGAGTATAAACGAGATGATGGCCTCTCAAGCGTTACGGCTAGACAGGCACAAGAGGCAG
 AGTGCCAGGCTTGGAGTACAGCTCCAGCAGGAGATGGAGCTGCTCAACGCCTACCAGAGCAAAAATCAA
 GATGCAAACGGAGGCCAGCAGCAGCGAGCTACAGAAGCTAGAGCAGAGGGTGTCCCTGCGCAGAGCG
 CATCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTGCAGAAGGAACGCAGTGAAGGATCAAGACTC
 TCCTGGAGAGACAAGAGCGAGAGACCGAGACTTTTGACATGGAGAGCCTCAGAATGGGCTTTGGGAATTT
 GGTGACATTAGATTTTCTAAGGAGGACTATAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231349 protein sequence
 Red=Cloning site Green=Tags(s)

MRKGALKDPEIADLFFKDDPEELFDLHEIGHGSFGAVYFATNAHTNEVVAVKKMSYSGKQTHEKWQDIL
 KEVKFLQQLKHPNTIEYKGCYLKEHTAWLVMHEYCLGSASDLELVHKKPLQEVEIAAITHGALQGLAYLHF
 HSLIHRDIKAGNILLTEPGQVKLADFGSASMSPANSFVGTPTYWMAPEVILAMDEGOYDGKVDIWSLGIT
 CIELAERKPPLFNMNAMSALYHIAQNDSPTLQSREWTDSFRFVDYCLHKIPQERPAAVELLRHDFIRRE
 RPPKVLIDL IQRTKDAVRELDNLQYRKMKKILFQETRNGPLNESQEEEEEDGEQGSNLNREVDLSGSIHSI
 PSTSVSTGSRSSSVNSMQEVMDESSSELVMMQEDEGTANSSASTVHKKDHVFRDEAGHGDPPEPRPTQ
 SVQSRALHYRNRERFATIKSASLVTRQIHEHEQENELREQMSGYKMRQRHQKQLIALENKLAEMDEHR
 LKLQKEVETHANNSSIELEKLAKKQVATIEKEAKVAADEKFKQQILAQQKLDL TTFLESQKKQYKICK
 EKIKEEMNEDHSTPKKEKQERISKHKNLQHTQAEAAHLLTQQRLYYDRNCRFFKRKIMIKRHEVEQQN
 IREELNKKRTQKEMEHAMLIRHDESTRELEYRQLHTLQKLRMDLIRLQHQTLENQLEYNKRRELRHRK
 HVMELRQQPKNLKAMEMQIKKQFQDTCKVQTKQYKALKNHQLEVTPKNEHKAILKTLKDEQTRKLAIAE
 QYEQSINEMMASQALRLDEAQEAECQALRLQLQEMELLNAYQSKIKMQTEAQHERELQKLEQRVSLRRA
 HLEQKIEEELAALQKERSERIKTLLEQRERETETFDMESLRMGFNLVTLDFPKEDYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

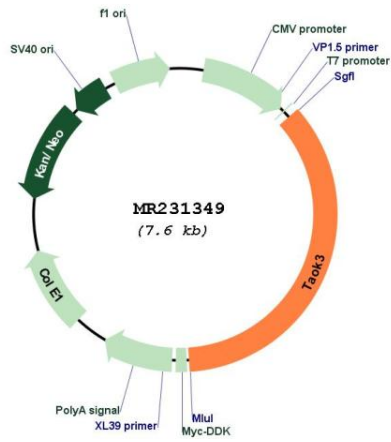
Cloning Scheme:



ACCN: NM_183306

ORF Size:	2694 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_183306.2 , NP_899129.2
RefSeq Size:	4343 bp
RefSeq ORF:	2697 bp
Locus ID:	330177
UniProt ID:	Q8BYC6
Cytogenetics:	5 F
MW:	105.3 kDa
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]

Product images:



Circular map for MR231349