

Product datasheet for **RR213390**

Taok3 (NM_001024254) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>RR213390 representing NM_001024254
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCGTAAAGGAGTGCTGAAGGACCCCGAGATTGCCGAGCTGTTCTTCAAGGAGGACCCGAAGAGCTCT
TTATCGACCTGCATGAAATCGGACATGGCAGCTTTGGAGCCGTGACTTCGCAACTAATGCGCACACCAA
CGAGGTGGTTGCTATTAAGAAAATGTCCTACAGTGGGAAGCAGACCCACGAGAAATGGCAAGATATCCTG
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CACTCCCTGATTCACAGGGACATTAAGCAGGGAATATCCTCCTCACAGAGCCAGGCCAGGTGAAGCTGG
CTGACTTCGGGTCGGCTCCATGGCTTCTCCTGCCAACTCCTTCGTGGGACTCCTTACTGGATGGCCCC
AGAGGTGATCTTAGCCATGGACGAAGGGCAGTACGACGGGAAAGTTGACATCTGGTCACTCGGCATCACC
TGATAGAGCTGGCGGAGCGGAAGCCCCCTCTTCAACATGAACGCCATGAGCGCCCTTACCACATCG
CTCAGAATGACTCCCCACGCTGCAGTCCAGAGAATGGACAGACTCCTTCAGGAGATTGTTGATTACTG
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TCCTGAAAGACAAGAGCGAGAGACCGAGACTTTTGACATGGAGAGCCTCAGAATGGGGTTTGGGAATTT
GGTGACATTAGATTTTCTAAGGAGGACTATAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213390 representing NM_001024254
 Red=Cloning site Green=Tags(s)

MRKGVLDPEIAELFFKEDPEELFDLHEIGHGSFGAVYFATNAHTNEVVAIKKMSYSGKQTHEKWQDIL
 KEVRFLLQKHPNTIEYKGCYLKEHTAWLVMYCYLGSASDLELVHKKPLQEVEIAAITHGALQGLAYLHF
 HSLIHRDIKAGNILLTEPGQVKLADFGSASMSPANSFVGTPTYWMAPEVILAMDEGQYDGVDIWSLGIT
 CIELAERKPPLFNMNAMSALYHIAQNDSPTLQSREWTSFRFRVDYCLHKIPQERPAEAELLRHDFIRRE
 RPPRVLIDLIRTKDAVRELDNLQYRKMKKILFQETRNGLNESQEEEDSEQGSNLNREVDLSGSIHSI
 PSVSVSTGSRSSSVNSMQEVMDEGSPELVMMQEDEGTVNSSSSMVHKKDHVFRDEAGHGDPPEPRPTQ
 SVQSRALHYRNRERFATIKSASLVTRQIHEHEQENELREQMSGYKMRQRHQKQLIALENKLAEMDEHR
 LKLQKEVETHANSSIELEKLAKKQVATIEKEAKVAADEKFKQQILAQQKDLTTFLESQKKQYKICK
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 QYEQSINEMMASQALRLDEAQEAECQALRLQLQEMELLNAYQSKIKMQTEAQHERELQKLEQRVSLRRA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

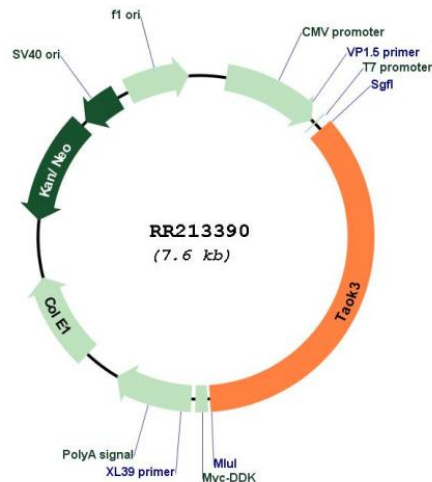
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024254

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:

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_001024254.1](#), [NP_001019425.1](#)

RefSeq Size: 2820 bp

RefSeq ORF: 2697 bp

Locus ID: 304530

UniProt ID: [Q53UA7](#)

Cytogenetics: 12q16

MW: 105.5 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]