OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR224145

Taok3 (NM_001081308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taok3 (NM_001081308) 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)

View online »

ORF Nucleotide Sequence:

>MR224145 representing NM_001081308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTAAAGGGGCACTGAAGGACCCAGAGATTGCTGATCTGTTCTTCAAGGATGACCCCGAAGAGCTTT
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CGAGGTGGTCGCTGTTAAGAAAATGTCCTACAGTGGGAAGCAGACCCATGAGAAATGGCAAGATATCCTT
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GGTGACATTAGATTTTCCTAAGGAGGACTATAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224145 representing NM_001081308
Red=Cloning site Green=Tags(s)

MRKGALKDPEIADLFFKDDPEELFIDLHEIGHGSFGAVYFATNAHTNEVVAVKKMSYSGKQTHEKWQDIL
KEVKFLQQLKHPNTIEYKGCYLKEHTAWLVMEYCLGSASDLLEVHKKPLQEVEIAAITHGALQGLAYLHF
HSLIHRDIKAGNILLTEPGQVKLADFGSASMASPANSFVGTPYWMAPEVILAMDEGQYDGKVDIWSLGIT
CIELAERKPPLFNMNAMSALYHIAQNDSPTLQSREWTDSFRRFVDYCLHKIPQERPAAVELLRHDFIRRE
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PSTSVSTGSRSSSVNSMQEVMDESSSELVMMQEDEGTANSSASTVHKKDHVFVRDEAGHGDPRPEPRPTQ
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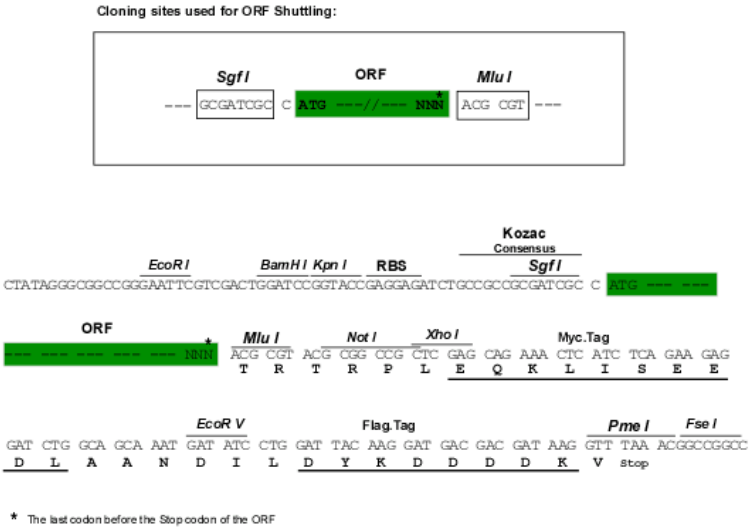
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_d11.zip

Restriction Sites: SgfI-MluI

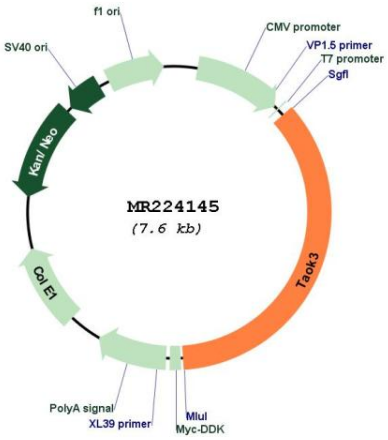
Cloning Scheme:



ACCN: NM_001081308

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_001081308.2, NP_001074777.1
RefSeq Size:	4258 bp
RefSeq ORF:	2697 bp
Locus ID:	330177
UniProt ID:	Q8BYC6
Cytogenetics:	5 F
MW:	105.8 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 MR224145