

Product datasheet for **RR203224**

Mapk10 (NM_012806) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk10 (NM_012806) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk10
Synonyms:	Jnk3; SAPb; SAPKC; Serk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR203224 representing NM_012806
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAAAGCAAGGTAGATAACCAGTCTACAGTGTGGAAGTGGGAGACTCAACCTTCACAGTCTCTAA
 AGCGCTACCAGAACCTGAAGCCGATCGGCTCTGGGCTCAGGGAATAGTTTGTGCTGCGTATGACGCTGT
 CCTCGACAGAAATGTGGCATTAAAGAAGCTCAGCAGACCCCTCCAGAACCAAACCTCATGCCAAGAGGGCT
 TACCGGGAGCTGGTCTCATGAAGTGTGTGAACCATAAAAAATTATTAGCTTATTAATGTCTTTACAC
 CCCAGAAAACACTGGAGGAGTTCCAAGATGTTTACTTAGTGATGGAAGTATGACGACCAACTTGTGTCA
 GGTGATTCAGATGGAGCTGGACCACGAGCGGATGTCGACTTGTGTACCAGATGCTGTCGGCGATCAAA
 CACCTCCACTCCGCTGGGATCATCCACAGGGACTTAAAACCCAGTAACATCGTAGTCAAGTCTGATTGCA
 CACTGAAAATCCTGGACTTTGGACTGGCCAGGACAGCGGGCACAAGCTTCATGATGACTCCGATGTGGT
 GACGAGATATTACAGAGCCCCGAGGTCATCCTGGGCATGGGCTACAAGGAGAAGCTGGACATATGGTCT
 GTGGGCTGCATCATGGGAGAAATGGTTCGTCACAAAATCCTCTTTCCCGAAGGGACTATATTGACCACT
 GGAACAAAGTCATAGAGCAGCTAGGAACCCGTGTCCAGAATTCATGAAGAAATTGCAGCCCACCGTCAG
 AAACACTGTGGAGAACCAGGCAAGTATGCAGGCCTCACCTTCCCAAGCTCTTTCCAGATTCCCTCTTC
 CCAGCGGATTCGAGCACAATAAACTTAAAGCCAGCCAAGCCAGGGACTTGTGTCAAAGATGTTAGTGA
 TTGACCCAGCGAAGAGGATATCGGTGGATGACGCATTGCAGCATCCGTACATCAACGTTTGGTACGACCC
 TGCTGAAGTGGAGGCGCTCCGCTCAGATATATGACAAGCAATTGGATGAAAGGGAGCACACCATCGAA
 GAATGGAAGAAGTCTATCTACAAGGAAGTAATGAACTCAGAAGAGAAGACTAAGAACGGCGTAGTCAAAG
 GCCAGCCCTCACCTTCAGGTGCAGCAGTGAACAGCAGTGAAGTCTCCCTCCATCCTCATCTGTCAACGA
 CATCTCCTCCATGTCCACCGACCAGACCTCGCATCCGACACTGACAGCAGCCTGGAAGCCTCGGGCGGA
 CCGCTGGGTTGTTGCAGGCCGCTGGGTTGTTGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203224 representing NM_012806
 Red=Cloning site Green=Tags(s)

MSKSKVDNQFYSVEVGDSTFTVLKRYQNLKPIGSGAQGIVCAAYDAVLDNRNVAIKKLSRPFQNTAKRA
 YRELVLMKCVNHKNIISLLNVFTPQKTLEEFQDVYLMELMDANLCQVIQMELDHERMSYLLYQMLSAIK
 HLHSAGIIHRDLKPSNIVVKSCTLKILDFGLARTAGTSFMMPYVVTRYRAPEVILGMGYKENVDIWS
 VGCIMGEMVRHKILFPGRDYIDQWNVIEQLGTPCFMFKLQPTVRNYVENRPKYAGLTFPKLFPDSL
 PADSEHNKLGASQARDLLSKMLVIDPAKRISVDDALQHPYINVWYDPAEVEAPPPQIYDKQLDEREHTIE
 EWKELIYKEVMNSEKTKNGVVKGQSPSGAAVNSSESLPPSSSVNDISSMSTDQTLASDTSSLEASAG
 PLGCCRPLGCCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1580_a09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012806

ORF Size: 1278 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 Size: 2786 bp

RefSeq ORF: 1281 bp

Locus ID: 25272

UniProt ID: [P49187](#)

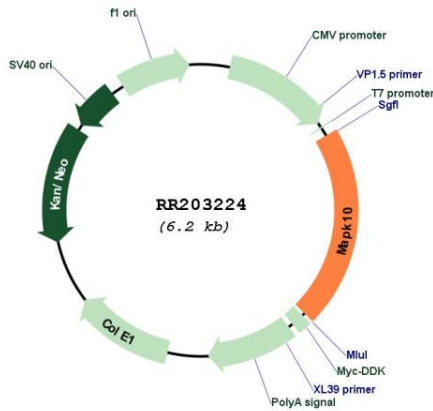
Cytogenetics: 14p22

MW: 48.1 kDa

Gene Summary:

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as integration points for multiple biochemical signals, and thus are involved in a wide variety of cellular processes, such as proliferation, differentiation, transcription regulation and development. This kinase is specifically expressed in a subset of neurons in the nervous system and is activated by threonine and tyrosine phosphorylation. Targeted deletion of this gene in mice suggests that it may have a role in stress-induced neuronal apoptosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2017]

Product images:



Circular map for RR203224