

Product datasheet for **RN203224**

Mapk10 (NM_012806) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk10 (NM_012806) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mapk10
Synonyms:	Jnk3; SAPb; SAPKC; Serk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN203224 representing NM_012806 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAAAGCAAGGTAGATAACCGTCTACAGTGTGGAAGTGGGAGACTCAACCTTCACAGTCTAA
AGCGCTACCAGAACCTGAAGCCGATCGGCTCTGGGCTCAGGGAATGTTTGTGTCGATGACGCTGT
CCTCGACAGAAATGTGGCCATTAAGAAGCTCAGCAGACCTTCCAGAACCAAACCTCATGCCAAGAGGGCT
TACCGGGAGCTGGTCTCATGAAGTGTGTGAACCATAAAAACATTATTAGCTTATTAATGTCTTTACAC
CCCAGAAAACACTGGAGGAGTTCGAAGATGTTTACTTAGTGATGGAACCTGATGGACGCCAACTTGTGTCA
GGTGATTGAGTGGAGCTGGACCACGAGCGGATGTCGTAATTGCTGTACCAGATGCTGTGCGGCATCAAA
CACCTCCACTCCGCTGGGATCATCCACAGGGACTTAAACCCAGTAACATCGTAGTCAAGTCTGATTGCA
CACTGAAAATCCTGGACTTTGGACTGGCCAGGACAGCGGGCACAAGCTTCATGATGACTCCGTATGTGGT
GACGAGATATTACAGAGCCCCGAGGTCATCCTGGGCATGGGCTACAAGGAGAACGTGGACATATGGTCT
GTGGGCTGCATCATGGGAGAAATGGTTCGTCACAAAATCCTCTTCCCGAAGGGACTATATTGACCAGT
GGAACAAAGTCATAGAGCAGCTAGGAACCTCCGTGTCAGAAATTCATGAAGAAATTCAGCCCAAGTCCAG
AAACTACGTGGAGAACCAGCCCAAGTATGCAGGCCTCACCTTCCCAAGCTCTTCCAGATTCCTCTTC
CCAGCGGATTCAGAGCAATAAACTTAAAGCCAGCCAAGCCAGGGACTTGTGTCAAAGATGTTAGTGA
TTGACCCAGCGAAGAGGATATCGGTGGATGACGCATTGCAGCATCCGTACATCAACGTTTGGTACGACCC
TGCTGAAGTGGAGGCGCTCCGCTCAGATATATGACAAGCAACTGGATGAAAGGGAGCACACCATCGAA
GAATGGAAAGAACTCATCTACAAGGAAGTAATGAACTCAGAAGAGAAGACTAAGAACGGCGTAGTCAAAG
GCCAGCCCTCACCTTCAGGTGCAGCAGTGAACAGCAGTGAAGTCTCCCTCCATCCTCGTCTGTCAACGA
CATCTCCTCCATGTCCACCGACCAGACCCTCGCATCCGACACTGACAGCAGCCTGGAAGCCTCGGCGGA
CCGCTGGGTTGTTGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_012806
Insert Size:	1281 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).
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_012806.2 , NP_036938.2
RefSeq Size:	2786 bp
RefSeq ORF:	1281 bp
Locus ID:	25272
UniProt ID:	P49187
Cytogenetics:	14p22
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate acceptor splice site in the 5' region, which results in translation initiation from an in-frame, downstream start codon compared to variant 1. The encoded isoform (2, also known as SAPK beta) has a shorter N-terminus compared to isoform 1.</p>