

Product datasheet for **MC209721**

Mapk10 (NM_009158) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk10 (NM_009158) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapk10
Synonyms:	C230008H04Rik; JNK; JNK3; JNK3B1; JNK3B2; p54bSAPK; p493F1; p493F12; SAPK(beta); Ser; Serk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC209721 representing NM_009158
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGCCTCCATTCTTATACTACTGCAGTGAACCAACCTTGGATGTGAAAATTGCCTTTTGTCCAGGGAT
TCGATAAACACGTGGATGTGTCATCTATTGCCAAACATTACAACATGAGCAAAAGCAAGGTGGACAACCA
GTTCTACAGTGTGGAAGTGGGGACTCAACCTTACCCTTCTTAAGCGCTACCAGAACCTGAAGCCAATT
GGCTCTGGGGCTCAGGAATAGTCTGTGCTGCGTACGACGCTGTCTTGACAGAAATGTGGCCATTAAGA
AGCTCAGCAGACCCTTCCAGAACCAAACTACGCCAAGAGGGCTTACCGGGAGCTGGTCTCATGAAGTG
TGTGAACCATAAAAAACATTATTAGCTTATTAATGTTTTACACCCAGAAAACACTGGAGGAGTCCAA
GATGTCTACTTAGTGATGGAACCTGATGGACGCCAACCTGTGTGAGTTCAGATGGAGCTGGACCACG
AGCGGATGTCTTACTTGTGTACCAGATGCTGTGTGGCATCAAGCACCTCCACTCCGCTGGGATCATCCA
CAGGGACTTAAACCCAGTAACATTGTAGTCAAGTCTGATTGCACACTGAAAATCCTCGACTTCGGACTG
GCCAGGACAGCGGTACAAGCTTCATGATGACTCCGTATGTGGTACGCGATATTACAGAGCCCTGAGG
TCATCCTGGGCATGGGCTACAAGGAGAACGTGGACATATGGTCTGTGGGATGCATCATGGGAGAAATGGT
TCGCCACAAAACTCTTTCCCGGAAGGGACTATATTGACCAGTGGAAACAAAGTCATCGAGCAGCTAGGA
ACTCCGTGTCCAGAGTTCATGAAGAAATTGCAGCCACAGTCAGAAACTACGTGGAGAATCGGCCCAAGT
ACGCAGGACTCACCTTCCCAAGCTCTTCCAGATTCCCTCTTCCAGCGGATTCTGAGCACAATAAACT
TAAAGCCAGCCAAGCCAGGGATTGTTGTCTAAGATGTTAGTGATTGACCAGCGAAGAGGATATCGGTG
GACGACGCACTGCAGCATCCGTACATCAACGTTTGGTACGACCCGGCTGAAGTGGAGGCGCTCCGCCTC
AGATATGATAAGCAGCTGGATGAAAGGGAGCACACCATCGAAGAATGGAAAGAACTTATCTACAAGGA
GGTAATGAACCTCAGAAGAGAAGACTAAGAAATGGCGTAGTCAAAGGCCAGCCCTCGCCTTCAGCACAGGTG
CAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_009158

Insert Size: 1269 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:

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_009158.3](#), [NP_033184.2](#)

RefSeq Size: 6604 bp

RefSeq ORF: 1269 bp

Locus ID: 26414

Cytogenetics: 5 E5

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]

Transcript Variant: This variant (2) uses an alternate acceptor splice site at the 3' terminal exon, which causes a frameshift compared to variant 1. The resulting isoform (2, also known as JNK3 alpha1) has a shorter and distinct C-terminus compared to isoform 1.

Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.