

Product datasheet for **RN216642**

Mapk8 (NM_053829) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8 (NM_053829) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mapk8
Synonyms:	JNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN216642 representing NM_053829
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGAAGTAAACGTGACAACAATTTTTATAGTGTAGAGATCGGAGATTCTACATTCACAGTCCTAA
 AACGATACCAGAACTTAAAGCCTATAGGCTCAGGAGCTCAAGGAATAGTGTGTCAGCTTATGATGCTAT
 TCTTGAAGAAATGTTGCAATCAAGAAGCTCAGCCGGCCATTTTCAAGATCAGACCCATGCTAAGCGAGCC
 TACCGAGAAGTAGTTCTTATGAAGTGTGTTAATCACAAAAATATAATTGGCCTTTTGAATGTTTTACAC
 CACAGAAATCCCTAGAAGAATTTCAAGATGTTTACATAGTCATGGAGCTCATGGATGCAAAATCTTTGCCA
 AGTGATTCAGATGGAGTTAGATCATGAAAGAATGCCTACCTTCTCTATCAAATGCTGTGTGGAATCAAG
 CACCTTCACTCTGCTGGAATTATTCATCGGGACTTAAAGCCTAGTAATATAGTAGCAAATCAGACTGCA
 CTTTGAAGATTCTTGATTTTGGACTGGCAAGGACTGCAGGAACGAGTTTTATGATGACGCCTTACGTGGT
 AACTCGTTACTACAGAGCACCAGAGGTCATTCTCGGCATGGGCTACAAGGAGAACGTGGATTTATGGTCT
 GTGGGGTGCAATTATGGGAGAAATGGTTTGCCTCAAATCCTCTTTCCAGGAAGGGACTATATTGATCAGT
 GGAATAAAGTTATTGAACAGCTCGGAACACCTGTCTGAATTCATGAAGAACTACAACCAACAGTAAG
 GACTTACGTTGAAAACAGACCTAAGTACGCTGGCTATAGCTTTGAGAACTGTTTCTGATGTGCTTTTC
 CCAGCTGACTCAGAACATAACAACTTAAAGCCAGTCAGGCGAGAGATTTGTTATCTAAAATGCTGGTGA
 TAGATGCGTCCAAAAGGATCTCCGTAGACGAAGCTCTCCAGCACCCGTACATCAACGTCTGGTATGATCC
 TTCAGAAGCAGAGGCCACCACCAAAGATCCCTGACAAGCAGTTAGATGAAAGGGAGCACACAATAGAG
 GAGTGGAAAGAACTGATATACAAGGAGGTCATGGATTTGGAGGAGCGAACTAAGAATGGCGTCATAAGAG
 GGCAGCCGTCTCCTTTAGGTGCAGCAGTATCAATGGCTCTCAGCATCCGGTCTCTTCGCCGTCTGTCAA
 TGACATGTCTTCAATGTCCACAGATCCGACTCTGGCCTCGGATACAGACAGCAGTCTAGAAGCATCAGCT
 GGACCTCTGGGCTGCTGTAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_053829
- Insert Size:** 1284 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_053829.2](#), [NP_446281.2](#)

RefSeq Size: 5796 bp

RefSeq ORF: 1284 bp

Locus ID: 116554

UniProt ID: [P49185](#)

Cytogenetics: 16p16

Gene Summary: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. [provided by RefSeq, Jul 2012]