

Product datasheet for **RR216642**

Mapk8 (NM_053829) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mapk8 (NM_053829) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mapk8
Synonyms: JNK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216642 representing NM_053829
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAGAAGTAAACGTGACAACAATTTTTATAGTGTAGAGATCGGAGATTCTACATTCACAGTCCTAA
AACGATACCAGAACTTAAAGCCTATAGGCTCAGGAGCTCAAGGAATAGTGTGTCAGCTTATGATGCTAT
TCTTGAAGAAAATGTTGCAATCAAGAAGCTCAGCCGGCCATTTTCAAGATCAGACCCATGCTAAGCGAGCC
TACCGAGAAGTAGTTCTTATGAAGTGTGTTAATCACAAAAATATAATTGGCCTTTTGAATGTTTTACAC
CACAGAAATCCCTAGAAGATTTCAAGATGTTTACATAGTCATGGAGCTCATGGATGCAAAATCTTTGCCA
AGTGATTACAGTGGAGTTAGATCATGAAAGAATGTCTACCTTCTCTATCAAATGCTGTGGAATCAAG
CACCTTCACTCTGCTGGAATTATTCATCGGGACTTAAAGCCTAGTAATATAGTAGTCAAATCAGACTGCA
CTTTGAAGATTCTTGATTTTGGACTGGCAAGGACTGCAGGAACGAGTTTTATGATGACGCCTTACGTGGT
AACTCGTTACTACAGAGCACCAGAGGTCATTCTCGGCATGGGCTACAAGGAGAACGTGGATTTATGGTCT
GTGGGGTGCAATATGGGAGAAAATGGTTTGCCTCAAATCCTCTTCCAGGAAGGGACTATATTGATCAGT
GGAATAAAGTTATTGAACAGCTCGGAACACCTTGTCTGAATTCATGAAGAACTACAACCAACAGTAAG
GACTTACGTTGAAAACAGACCTAAGTACGCTGGCTATAGCTTTGAGAAACTGTTTCTGATGTGCTTTTC
CCAGCTGACTCAGAACATAACAACTTAAAGCCAGTCAGGCGAGAGATTTGTTATCTAAAATGCTGGTGA
TAGATGCGTCCAAAAGGATCTCCGTAGACGAAGCTCTCCAGCACCCGTACATCAACGTCTGGTATGATCC
TTCAGAAGCAGAGGCCCCACCACCAAAGATCCCTGACAAGCAGTTAGATGAAAGGGAGCACACAATAGAG
GAGTGGAAAGAACTGATATACAAGGAGGTCATGGATTTGGAGGAGCGAACTAAGAATGGCGTCATAAGAG
GGCAGCCGCTCCTTTAGGTGCAGCAGTATCAATGGCTCTCAGCATCCGGTCTCTTCGCCGCTGTGCAA
TGACATGTCTTCAATGTCCACAGATCCGACTCTGGCCTCGGATACAGACAGCAGTCTAGAAGCATCAGCT
GGACCTCTGGGCTGCTGTAGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR216642 representing NM_053829
Red=Cloning site Green=Tags(s)

MSRSKRDNFYSVEIGDSTFTVLKRYQNLKPIGSGAQQIVCAAYDAILERNVAIKKLSRPFQNTAKRA
 YRELVLMKCVNHKNIIGLLNVFTPQKSLEEFQDVYIVMELMDANLCQVIQMELDHERMSYLLYQMLCGIK
 HLHSAGIIHRDLKPSNIVVKSDDLKILDFGLARTAGTSFMMPYVVTRYRAPEVILGMGYKENVDLWS
 VGCIMGEMVCLKILFPRDYIDQWNKVIQLGTPCFEFMKKLQPTVRTYVENRPKYAGYSFEKLPDVLV
 PADSEHNKLGASQARDLLSKMLVIDASKRISVDEALQHPYINVWYDPSEAEAPPKIPDKQLDEREHTIE
 EWKELIYKEVMDLEERTKNGVIRGQPSPLGAAVINGSQHPVSSPSVNDMSSMSTDPPTLASDTSLSLEASA
 GPLGCCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

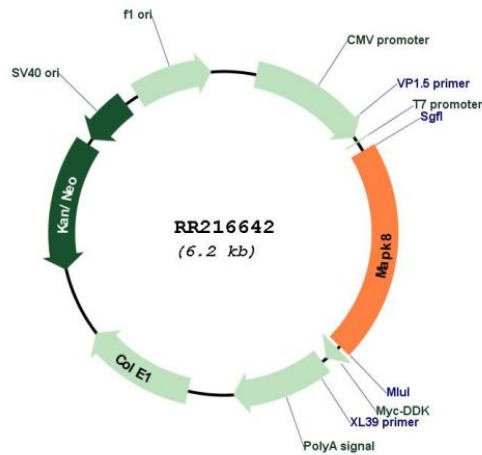
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053829

ORF Size:	1281 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:	<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_053829.2 , NP_446281.2
RefSeq Size:	5796 bp
RefSeq ORF:	1284 bp
Locus ID:	116554
UniProt ID:	P49185
Cytogenetics:	16p16
MW:	48.3 kDa
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]