

Product datasheet for **RC238167**

JNK1 (MAPK8) (NM_001278547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JNK1 (MAPK8) (NM_001278547) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JNK1
Synonyms:	JNK; JNK-46; JNK1; JNK1A2; JNK21B1/2; PRKM8; SAPK1; SAPK1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238167 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGAAGCAAGCGTGACAACAATTTTATAGTGTAGAGATTGGAGATTCTACATTCACAGTCTGTA
 AACGATATCAGAATTTAAACCTATAGGCTCAGGAGCTCAAGGAATAGTATGCGCAGCTTATGATGCCAT
 TCTTGAAGAAATGTTGCAATCAAGAAGCTAAGCCGACCATTTCAAGATCAGACTCATGCCAAGCGGGCC
 TACAGAGAGCTAGTTCTTATGAAATGTGTTAATCACAAAAATATAATTGGCCTTTTGAATGTTTTACAC
 CACAGAAATCCCTAGAAGAATTTCAAGATGTTTACATAGTCATGGAGCTCATGGATGCAAAATCTTTGCCA
 AGTGATTCAGATGGAGCTAGATCATGAAAGAATGCCTACCTTCTATCAGATGCTGTGTGAATCAAG
 CACCTTCATTCTGCTGGAATTATTCATCGGGACTTAAAGCCAGTAATATAGTAGTAAAACTGATTGCA
 CTTTGAAGATTCTTGACTTCGGTCTGGCCAGGACTGCAGGAACGAGTTTTATGATGACGCCTTATGTAGT
 GACTCGCTACTACAGAGCACCCGAGTTCCTTGGCATGGGCTACAAGGAAAACGTTGACATTTGGTCA
 GTTGGGTGCATCATGGGAGAAATGATCAAAGGTGGTGTGTTTGTCCAGGTACAGATCATATTGATCAGT
 GGAATAAAGTTATTGAACAGCTTGAACACCATGTCTGAATTCATGAAGAACTGCAACCAACAGTAAG
 GACTTACGTTGAAAACAGACCTAAATATGCTGGATATAGCTTTGAGAACTCTTCCCTGATGTCCTTTTC
 CCAGCTGACTCAGAACACAACAACTTAAAGCCAGTCAGGCAAGGGATTGTTATCCAAAATGCTGGTAA
 TAGATGCATCTAAAAGGATCTCTGTAGATGAAGCTCTCCAACACCCGTACATCAATGTCTGGTATGATCC
 TTCTGAAGCAGAAGCTCCACCACCAAGATCCCTGACAAGCAGTTAGATGAAAGGGAACACAAATAGAA
 GAGTGGAAAGAATTGATATATAAGGAAGTTATGGACTTGGAGGAGAGAACCAAGAATGGAGTTATACGGG
 GGCAGCCCTCTCCTTTAGGTGCAGCAGTGATCAATGGCTCTCAGCATCCATCATCATCGTCGTCTGTCAA
 TGATGTGCTTCAATGTCAACAGATCCGACTTTGGCCTCTGATACAGACAGCAGTCTAGAAGCAGCAGCT
 GGGCCTCTGGGCTGCTGTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238167 protein sequence
 Red=Cloning site Green=Tags(s)

MSRSKRDNNFYSVEIGDSTFTVLKRYQNLKPIGSGAQGIVCAAYDAILERNVAIKKLSRPFQNTAKRA
 YRELVLMKCVNHKNIIGLLNVFPPQKSLLEEFQDVYIVMELMDANLCQVIQMELDHERMSYLLYQMLCGIK
 HLHSAGIIHRDLKPSNIVVKSCTLKILDFGLARTAGTSFMMPYVYVTRYRAPEVILGMGYKENVDIWS
 VGCIMGEMIKGGVLFPGTDHIDQWNVIEQLGTPCFEPMKKLQPTVRTYVENRPKYAGYSFEKLPDVLFP
 PADSEHNKLGASQARDLLSKMLVIDASKRISVDEALQHPYINVWYDPSEAEAPPPKIPDKQLDEREHTIE
 EWKELIYKEVMDLEERTKNGVIRGQPSPLGAAVINGSQHPSSSSVNDVSSMSTDPPTLASDTSSELEAAA
 GPLGCCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6606_d06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001278547

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:**
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_001278547.1](#), [NP_001265476.1](#)

RefSeq Size: 5854 bp

RefSeq ORF: 1284 bp

Locus ID: 5599

UniProt ID: [P45983](#)

Cytogenetics: 10q11.22

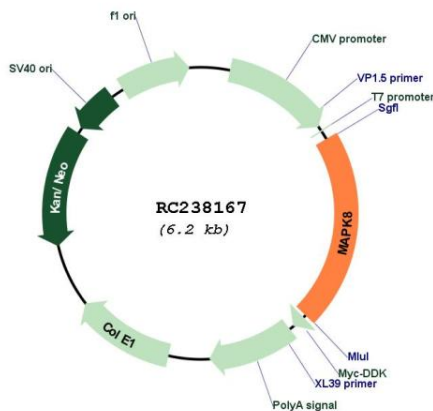
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, Wnt signaling pathway

MW: 48.1 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. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Apr 2016]

Product images:



Circular map for RC238167