

Product datasheet for SC120589

JNK1 (MAPK8) (NM_139049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JNK1 (MAPK8) (NM_139049) Human Untagged Clone
Tag:	Tag Free
Symbol:	JNK1
Synonyms:	JNK; JNK-46; JNK1; JNK1A2; JNK21B1/2; PRKM8; SAPK1; SAPK1c
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<pre>>0riGene ORF sequence for NM_139049 edited ATGAGCAGAACGAAGCGTGACAACAATTATAAGTGTAGAGATTGGAGATTCTACATTC ACAGTCCTGAAACGATATCAGAATTAAAACCTATAGGCTCAGGAGCTAAGGAATAGTA TGCCAGCTTATGATGCCATTCTTGAAGAAATGTTGCAATCAAGAAGCTAACCGGACCA TTTCAGAACATCAGACTCATGCCAACGGGCCTACAGAGAGCTAGTTCTATGAAATGTT AATCACAAAAATAATTGGCCTTTGAATGTTTACACCACAGAAATCCCTAGAAGAA TTTCAGATGTTACATAGTCATGGAGCTATGGATGCAAATTTGCCAAGTGATTGAG ATGGAGCTAGATCATGAAAGAATGTCCTACCTTCTATCAGATGCTGTGGAATCAAG CACCTCATTCTGCTGGAATTATTGATCAGGACTAAAGCCCAGTAAATAGTAGTAA TCTGATTGCACTTGAAGATTCTTGACTTCGGTCTGGCAGGACTGCAGGAACGAGTTT ATGATGACGCCATTGATGAGCTCGTACTACAGAGCACCGAGGTATCCTGGCATG GGCTACAAGGAAACGTTGATTATGGCTGTGGGGTGCATTATGGGAGAAATGGTTGC CACAAATCCTTTCAGGAAGGGACTATATTGATCAGTGGATAAAAGTTATTGAAACAG CTTGGAACACCATGTCCTGAATTGATGAGAAACTGCAACCAACAGTAAGGACTTACGTT GAAAACAGACCTAAATATGCTGGATATGCTTGGAAACTCTTCCCTGATGTCCTTTC CCAGCTGACTCAGAACACAACAAACTAAAGCCAGTCAGGCAAGGGATTGTTATCCAA ATGCTGGTAATAGATGCTAAAGGATCTGTAGATGAGCTCTCCAAACACCGTAC ATCAATGTCTGGTATGATCCTTCTGAAGCAGAAGCTCCACCAAGATCCCTGACAAG CAGTAGATGAAAGGAACACACAATAGAAGAGTGGAAAGAATTGATATAAGGAAGTT ATGGACTTGGAGGAGAGAACCAAGAATGGAGTTACGGGGGAGCCCTCCTTAGGT GCAGCAGTGTAAATGGCTCTCAGCATCCATCATCGTCGTCTGCAATGATGTC TCAATGTCAACAGATCCGACTTGGCCTCTGATACAGACAGCAGTCTAGAACGAGCAGCT GGGCCTCTGGCTGCTGTAGATGA</pre>



5' Read Nucleotide Sequence:	>0riGene 5' read for NM_139049 unedited TATAGGC GGCC CGCA ATT CGC ACG AGGG AC GAC CG CT GG ATT CGG AG CC CG AG C AG CG CT GG GT AAC GG CG CG GC ACC ACC CG AC GGG CCT GT CCC CG CT GG CG CG CTT CC CT GT CG CC GT TT CG CT GC CT GC CG CT TT GG TA AT TT GG AT GA AG CC ATT AAA TT AATT GCT TGC CAT CAT GAG CAG AAG CA AG CG TG ACA ACA AT TT TATA GT TAG AG AT TGG AGA TT CT AC ATT CAC AGT CCT GAA AG AT AT CAG AAT TT AA AC CT AT AGG CT CAG G AG CT CA AGGA AT AGT AT GC CAG CT TAT GAT GC CATT CT TGA AGA AT GT TG CA AT CAA GA AG CT AAG CG ACC AT TC AGA AT CAG ACT CAT GC CA AG CG GG CCT AC AG AG AG CT AG T TCT TAT GAA AT GT TT AAT CAC AAA AT ATA ATT GG CCT TT GA AT GT TT CA CACC ACA GAA AT CC CT AGA AGA AT TC AGA AT GT TT AC AT AGT CAT GG AG CT CAT GG AT GC AA AT CT TT GG CA AGT GAT TC AGA TGG AG CT AGA TGT GAA AGA AT GT CCT AC CT TCT AT CAG AT GCT GT GT GG AAT CA AGC AC CCT CATT CT GCT GG AATT ATT CAT CG GG ACT TA AGG C CAG TA AT AT AGT AG TAA AT CT GAT TG CACT TT GA AG AT TT CT GACT CG CT ACT AC AG AG C ACC G A TG CAG G AAG CAG GT NT AT GAT GAC GC TT AT GTAG T GACT CG CT ACT AC AG AG C ACC G A GG TC AT CCT GG CAT GG CT AC AG GN AA AC GT GN ATT TAT GG CT GT GG NG TG CA
Restriction Sites:	NotI-NotI
ACCN:	NM_139049
Insert Size:	6100 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:	<u>NM_139049.1, NP_620637.1</u>
RefSeq Size:	1412 bp
RefSeq ORF:	1284 bp
Locus ID:	5599
UniProt ID:	<u>P45983</u>
Cytogenetics:	10q11.22
Domains:	Protein Kinase, TyrKc, S_TKc
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
Gene Summary:	<p>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 cytochrome c-mediated cell death pathway.</p> <p>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]</p> <p>Transcript Variant: This variant (JNK1-a2) encodes the longer of the two JNK1 alpha isoforms (JNK1 alpha2). The JNK1-a2 variant differs from the JNK1-b2 variant in the use of an alternate internal coding exon of the same length. Thus, JNK1 alpha2 isoform is the same length as JNK1 beta2 isoform, with a few aa difference in an internal protein segment. Variants JNK1-a2, 14, 15 and 17 all encode isoform alpha2. 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.</p>