

Product datasheet for **SC323606**

JNK3 (MAPK10) (NM_002753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JNK3 (MAPK10) (NM_002753) Human Untagged Clone
Tag:	Tag Free
Symbol:	JNK3
Synonyms:	JNK3; JNK3A; p54bSAPK; p493F12; PRKM10; SAPK1b
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002753, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTCCATTTCTTATACTACTGCAGTGAACCAACATTGGATGTGAAAATTGCCTTTTGCAGGGAT
TCGATAACAAGTGGATGTGCATATATTGCCAAACATTACAACATGAGCAAAAGCAAAGTTGACAACCA
GTTCTACAGTGTGGAAGTGGGAGACTCAACCTTACAGTTCTCAAGCGCTACCAGAATCTAAAGCCTATT
GGCTCTGGGGCTCAGGGCATAGTTTGTGCCGCGTATGATGCTGTCCTTGACAGAAATGTGGCCATTAAGA
AGCTCAGCAGACCCTTTCAGAACCAACACATGCCAAGAGAGCGTACCGGGAGCTGGTCTCATGAAGTG
TGTGAACCATAAAAACATTATTAGTTTATTAATGTCTTACACCCCAGAAAACGCTGGAGGAGTCCAA
GATGTTTACTTAGTAATGGAAGTATGGATGCCAATTATGTCAAGTGATTCAGATGGAATTAGACCATG
AGCGAATGTCTTACCTGCTGTACCAAATGTTGTGTGGCATTAAAGCACCTCATTCTGCTGGAATTATTCA
CAGGGATTTAAAACCAAGTAACATTGTAGTCAAGTCTGATTGCACATTGAAAATCCTGGACTTTGGACTG
GCCAGGACAGCAGGCACAAGCTTCATGATGACTCCATATGTGGTGACACGTTATTACAGAGCCCCTGAGG
TCATCCTGGGGATGGGCTACAAGGAGAACGTGGATATATGGTCTGTGGGATGCATTATGGGAGAAATGGT
TCGCCACAAAATCCTCTTCCAGGAAGGGACTATATTGACCAGTGAATAAGGTAATTGAACAAC TAGGA
ACACCATGTCCAGAATTCATGAAGAAATGCAACCCACAGTAAGAACTATGTGGAGAATCGGCCCAAGT
ATGCGGGACTCACCTTCCCCAACTCTTCCAGATTCCCTCTTCCAGCGGACTCCGAGCACAATAAACT
CAAAGCCAGCCAAGCCAGGGACTTGTGTCAAAGATGCTAGTGATTGACCCAGCAAAAAGAATATCAGTG
GACGACGCCTTACAGCATCCCTACATCAACGTCTGGTATGACCCAGCCGAAAGTGGAGGCGCCTCCACCTC
AGATATATGACAAGCAGTTGGATGAAAAGAGAACACACAATTGAAGAATGGAAAGAACTTATCTACAAGGA
AGTAATGAATTCAGAAGAAAAGACTAAAAATGGTGTAGTAAAAGGACAGCCTTCTCCTTCAGCACAGGTG
CAGCAGTGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_002753 unedited CCCCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTACTATAGGGCGGCCGCAATTCGGCACCAGGAGCGGCAGAGTTCC TAGCGCCTGCAGTGTGGTGAACCTCAACTTTTAGGCCAAGTTGAAAATGCAGCCGACGACCCACACTT CTAACTTCAGAATCAAACTATGACCCTAGGGAGTGAGGAGGAGAGTGAAAAATGCCTTTCCAGTGCCT CCAGCAGCCCTCCTCAAGACCCTGTGAGGCCAGGCAGAAATGGCGTGGCAGGGGACCCAGCGAGCCCA GAGGGATTTTGGCGTGCTTCTCTACCCCTGTATTTACGCAGCTCTCTAAATTGACTCAGCTCCAGGC TAGTGTGAGAACCAACAGCAGGCCATCTCAGATCTTCACTATGGGCAACTTATGCAGAACTGGTTG ATTAGACCCGTTTCTAATAGATGAGAAACAATACAGCTGGTGGTATTTATGACCCTCATTTTCTTAATAT ACCGGAGTGAACCCAAATTGGAGTGTGAAATTGGCCTTTTCCAGGGATTCCGTAACCAATTGAGTGTCC ATATATTGCCAATTACACTTGACAAGGCAAGTTGAACACGTTCTACGTTGGAAGTGGAACTACCTCACA GTTCCAGCGCTACAATCTAGCCAATGCCTGGCTCAAGGCATATTTGTGCCGGTATGAGTGTCTGACAA TGGCCTTAGACTCAGACCTTGGACACACTCGGAAGATCAAAGCGTCTAGACTGGAAACAAAAAATGTCAA TGTCACCAAGCTGGATCCC
Kinase Domain Sequence:	>SC323606 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CWRGATCTAAGCCTATTGGCTCTGGGGCTCAGGGCATAGTTTGTGCCGCTATGATGCTGTCTTGACAG AAATGTGGCCATTATGAAGCTCAGCAGACCCTTTCAGAACCAACACATGCCAAGAGAGCGTACCGGGAG CTGGTCTCATGAAGTGTGTGAACCATAAAAAACATTATTAGTTTATTAATGTCTTCACACCCAGAAAA CGCTGGAGGAGTCCAAGATGTTACTTAGTAATGGAAGTATGATGG
Restriction Sites:	Please inquire
ACCN:	NM_002753
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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_002753.2 , NP_002744.1
RefSeq Size:	2372 bp
RefSeq ORF:	1269 bp

Locus ID:	5602
UniProt ID:	P53779
Cytogenetics:	4q21.3
Domains:	ppkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, 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 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 described 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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate acceptor splice site at the 3' terminal exon, which causes a frameshift compared to variant 1. The resulting isoform (2, also know as JNK3 alpha1) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>