

## Product datasheet for **SC324181**

### MAPK11 (NM\_002751) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAPK11 (NM_002751) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPK11
Synonyms:	p38-2; P38B; p38Beta; P38BETA2; PRKM11; SAPK2; SAPK2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

```
>OriGene sequence for NM_002751.5
TCGGGCGCGGGCGCGGGGCGGGGCTGGGCCGGGCGGAGCGGCGGCTGCTCCGGACAT
GTCGGGCCCTCGCGCCGGCTTCTACCGGCAGGAGCTGAACAAGACCGTGTGGGAGGTGCC
GCAGCGGCTGCAGGGGCTGCGCCGGTGGGCTCCGGCGCTACGGCTCCGTCTGTTCCGGC
CTACGACGCCCGGCTGCGCCAGAAGGTGGCGGTGAAGAAGCTGTCGCGCCCTTCCAGTC
GCTGATCCACGCGCGCAGAACGTACCGGAGCTGCGGCTGCTCAAGCACCTGAAGCACGA
GAACGTCAATCGGGCTTCTGGACGCTTTCACGCCGGCCACGTCCATCGAGGACTTCAGCGA
AGTGTACTTGGTGACCACCTGATGGGCGCCGACCTGAACAACATCGTCAAGTGCCAGGC
GCTGAGCGACGAGCACGTTCAATTCTGGTTTACCAGCTGCTGCGCGGGCTGAAGTACAT
CCTACTCGGCCGGGATCATCCACCGGACCTGAAGCCAGCAACGTGGCTGTGAACGAGGA
CTGTGAGCTCAGGATCCTGGATTTCCGGGCTGGCGGCCAGGCGGACGAGGAGATGACCGG
CTATGTGGCCACGCGCTGGTACCGGGCACCTGAGATCATGCTCAACTGGATGCATTACAA
CCAAACAGTGGATATCTGGTCCGTGGGCTGCATCATGGCTGAGCTGCTCCAGGGCAAGGC
CCTCTTCCGGGAAGCGACTACATTGACCAGCTGAAGCGCATCATGGAAGTGGTGGGCAC
ACCCAGCCCTGAGGTTCTGGCAAAAATCTCCTCAGAACACGCCCGGACATATATCCAGTC
CCTGCCCCCATGCCCGAGAAGGACCTGAGCAGCATCTTCCGTGGAGCCAACCCCTGGC
CATAGACCTCCTTGAAGGATGCTGGTGTGGACAGTGACCAGAGGGTCACTGACGCTGA
GGCACTGGCCACGCCTACTTACGCCAGTACCACGACCCCGAGGATGAGCCAGAGGCCGA
GCCATATGATGAGAGCGTTGAGGCCAAGGAGCGCACGCTGGAGGAGTGAAGGAGCTCAC
TTACCAGGAAGTCTCAGCTTCAAGCCCCAGAGCCACCGAAGCCACCTGGCAGCCTGGA
GATTGAGCAGTGAGGTGCTGCCAGCAGCCCTGAGAGCTGTGGAGGGGCTTGGGCTG
CACCTTCCACAGCTGGCCTGGTTTCTCGAGAGGCACCTCCCACTCCTATGGTCACA
GACTTGTGGCCTAGGACCCCTCGCCTTCAAGGAAATCTACACGCATGTATGCATGCACAA
ACATGTGTGTACATGTGCTTGGCATGTGTAGGAGTCTGGGCACAAGTGTCCCTGGGCCTA
CCTTGGTCTCCTGTCCTTCTGGCTACTGCACTCTCCACTGGGACCTGACTGTGGGT
CCTAGATGCCAAAGGGTTCCTTCCGAGTTCCTTGTCTGTCAGGCGGACCCAAAGG
GAGTGTACGCTTGGGCTCTTCTGTCAGGCTTTCTGGAGGACGCGCTGGGCGCG
GACCCCGGAGACTCAAAGGGAGAGGTCTCAGTGGTTAGAGCTGCTCAGCCTGGAGGTAG
GGGCTGTCTTGGTCACTGCTGAGACCCACAGGTCTAAGAGGAGAGGCAGAGCCAGTGTG
CCACCAGGCTGGGAGGACAACCACAGGTGTCAAATGAGAAAAGCTGCCTGGAGTCTT
GTGTTACCCGTGGGTGTGTGGGCACGTGTGGATGAGCGTGCCTCCCGTGTTCATA
TGTGAGGCGACATGTGATGTGGTGGTGTGAATCTGTGGGCGCCAAAGGCCAGCAGCCAT
ATCTGGCAAGAAGCTGGAGCCGGGGTGGGTGTGCTGTTGCCTTCCCTCTCCTCGGTTCT
GATGCCTTGGGGGTGTTTCCAGACTGGCGGCTCCAGTGGGCCAAAGGGCAACCACATGAG
CATGGGCGAGGGCTTTCTCCTTGGATGTGGGACCCACAGCAGCTTCTGAGGCTGGGGT
GGGTGGTGGGTGGTGGTGGCCTTGGAGACGCTAGGGCAGGCAGCACACCTGGATGTGGAC
TTGGACTCGGACACTTCTGCCCTGCACCCTGGCCCGCTCTACTCTGCCACCGTTGT
GGCCCTGCAGCCGAGATCTGAGGTGCTCTGGTCTGTGGGTGAGTCTCTTCTTCTTGTCC
CAGGATGGAGCTGATCCAGTAACCTCGGAGACGGGACCTGCCAGAGCTGAGTTGGGG
TGTGGCTCTGCCCTGAAAGGGGTGACCTCTTGCCTCGAGGGGCCAGGGAAGCTGGG
TGCAAGTGCCTGCACAGGGGTGCACAATAAAGGGGTCTCTCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:**

EcoRI-NOT

**ACCN:**

NM\_002751

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002751.5</a> , <a href="#">NP_002742.3</a>
<b>RefSeq Size:</b>	2420 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	5600
<b>UniProt ID:</b>	<a href="#">Q15759</a>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway

**Gene Summary:**

This gene encodes a member of a family of protein kinases that are involved in the integration of biochemical signals for a wide variety of cellular processes, including cell proliferation, differentiation, transcriptional regulation, and development. The encoded protein can be activated by proinflammatory cytokines and environmental stresses through phosphorylation by mitogen activated protein kinase kinases (MKKs). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.