

## Product datasheet for **SC118466**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_002751 edited
GAATTCGCACGAGGCTCGGGCGCGGGCGCGGGGCTGGGCCCGGGCGGAGCGGC
GGCTGCTCCGGACATGTCGGGCCCTCGCGCCGGCTTCTACCGCAGGAGCTGAACAAGAC
CGTGTGGGAGGTGCCGACGGCTGCAGGGGCTGCGCCCGGTGGGCTCCGGCGCCTACGG
CTCCGTCTGTTCCGGCCTACGACGCCCGGCTGCGCCAGAAGGTGGCGGTGAAGAAGCTGTC
GCGCCCCCTCCAGTCGCTGATCCACGCGCGCAGAACGTACCGGGAGCTGCGGCTGCTCAA
GCACCTGAAGCACGAGAACGTCATCGGGCTTCTGGACGCTTTCAGCGCGGCCACGTCCAT
CGAGGACTTCAGCGAAGTGTACTTGGTGACCACCTGATGGGCGCCGACCTGAACAACAT
CGTCAAGTGCCAGGCGCTGAGCGACGAGCACGTTCAATTCCTGGTTTACCAGCTGCTGCG
CGGGCTGAAGTACATCCACTCGGCCGGGATCATCCACGGGACCTGAAGCCCAGCAACGT
GGCTGTGAACGAGGACTGTGAGCTCAGGATCCTGGATTTCCGGGCTGGCGGCCAGGCGGA
CGAGGAGATGACCGGCTATGTGGCCACGCGCTGGTACCGGGCACCTGAGATCATGCTCAA
CTGGATGCATTACAACCAACAGTGGATATCTGGTCCGTGGGCTGCATCATGGCTGAGCT
GCTCCAGGGCAAGGCCCTTCCCGGGAAGCGACTACATTGACCAGCTGAAGCGCATCAT
GGAAGTGGTGGGCACACCCAGCCCTGAGGTTCTGGCAAAAATCTCCTCAGAACACGTGAG
TTGGTGCCCGCCAGCCAGCAGCTCCCTCTCCTGGCTGAGCCCCCAGGCTCTCTGGGGGAG
AGGGTGGTGTGTTAATGCGGGGACCATATGGGGAACATGGGATGTGGTGGGATAGAGCCT
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AGGGACAGTGAGTGCAAAGCCATGACCCAGCAAGCAGTGCCTGGCCAGGGCAGTGGGGG
TGGGCTGGGGGCCAGCAAGCAGTGCCTGGCCAGGGCAGTGGGGTGGGCTGGGGGACCC
CAGCAAGCAGTGCCTGGCCAGGGCAGTGGGGTGGGCTGGGTGGAGGGAGTGTACTTGA
CCCAGCTCCTGCAGGCATTAGGGGCCAACTGAGGAGCTAGAACCACCAGATCCTATATGG
AGGGGGTCACTGGTCTGCCTGTGCCCTTGTCTGGCCTGTTGGAGTGAATGAGCTGGGG
GCTTGCCAAGAGAAGCCCCAGTTTGGGGCCAGGGAGGCAGAGAGTGAGCAGCCTCCCCAG
GTGTTCTGTGTGCCCCAGGCCGACATATATCCAGTCCCTGCCCCCATGCCCCAGA
AGGACCTGAGCAGCATCTCCGTGGAGCCAACCCCTGGCCATAGACCTCCTTGAAGGA
TGCTGGTGTGGACAGTGACCAGAGGGTCAGTGCAGCTGAGGCACTGGCCACGCCTACT
TCAGCCAGTACCACGACCCCGAGGATGAGCCAGAGGCGGAGCCATATGATGAGAGCGTTG
AGGCCAAGGAGCGCACGCTGGAGGAGTGAAGGAGCTCACTTACCAGGAAGTCTCAGCT
TCAAGCCCCCAGAGCCACCGAAGCCACCTGGCAGCCTGGAGATTGAGCAGTGAGGTGCTG
CCCAGCAGCCCCTGAGAGCCTGTGGAGGGGCTTGGGCCTGCACCCTTCCACAGCTGGCCT
GGTTTCTCGAGAGGCACCTCCACACTCCTATGGTCACAGACTTCTGGCCTAGGACCCC
TCGCCTTCAGGAGAATCTACACGCATGTATGCATGCACAAAACATGTGTGTACATGTGCTT
GCCATGTGTAGGAGTCTGGGCACAAGTGTCCCTGGGCCTACCTTGGTCTCCTGTCTCT
TCTGGCTACTGCACTCTCCACTGGGACCTGACTGTGGGTCTAGATGCCAAAGGGGTTCC
CCCTGCGGAGTTCCTGTCTGTCCCAGGCCACCCAAGGGAGTGTGAGCCTTGGGCTCT
CTTCTGT
    
```

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002751 unedited  
AGACCAAGGACCAACAACCTTTTCNNCCCCCGTTTCCAGATTTGTATACGATCATATAGGCG  
GCCGCGNAATTCGCACGAGGCTCGGGCGCGGGCGCGGGGCTGGGCCCGGGCGG  
AGCGGGCGGCTGCTCCGGACATGTCGGGCCCTCGCGCCGGCTTCTACCGGCAGGAGCTGAA  
CAAGACCGTGTGGGAGGTGCCGACGCGGCTGCAGGGGCTGCGCCCGTGGGCTCCGGCGC  
CTACGGCTCCGTCTGTTCCGGCTACGACGCCGGCTGCGCCAGAAGGTGGCGGTGAAGAA  
GCTGTGCGGCCCTTCCAGTCCGCTGATCCACGCGCGCAGAACGTACCGGGAGCTGCGGCT  
GCTCAAGCACCTGAAGCACGAGAACGTATCGGGCTTCTGGACGCTTTCACGCCGGCCAC  
GTCCATCGAGGACTTCAGCGAAGTGTACTTGGTGACCACCTGATGGGCGCCGACCTGAA  
CAACATCGTCAAGTGCCAGGCGCTGAGCGACGAGCACGTTCAATTCTGGTTTACCAGCT  
GCTGCGCGGGCTGAAGTACATCCACTCGGCCGGGATCATCCACCGGGACCTGAAGCCAG  
CAACGTGGCTGTGAACGAGGACTGTGAGCTCAGGATCCTGGATTTCCGGCTGGCGGCCA  
GGCGGACCAGGAGACGACCGGCTATGTGGCCACGCGCTGGTACCGGGCCCTGACACATG  
CCCCACTGGATGCATTACCACCAACCAGTGGATACTCCCGGCCGCGGGCTGCATATGC  
GCTGACCTGCTCCAGGGCAAGGGCCCTTCCCGGGAAGCGACCTACATTGACCCAGC  
TAAACCATAATGTGAACGGTGGGCCACACACACCTTGGGCTTTTCGGAACAAATT  
TCTACAACCTCACTTAATTCGCGCGCCGAACAACCCCATATCTACCTCTCTGCGCCGA  
CCCCCACGA

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_002751 unedited  
GCGCTCGAGGACCCCTTTTACGTGCATCCCTGGTGCAGGCACTTGNACCCAGGCTTCC  
CTGGGCCCTCGAGGCAAGAGGTCAACCCCTTTCCAGGCAGAGCCACACCCCAACTCAG  
CTCTGGGCAAGGTCCCGTCTCCGAGTTACTGGATCAGCTCCATCCTGGGACAAGGAAAG  
AGGACTGACCCACAGACCAGAGCACCTCAGATCTCCGGCTGCAGGGCCACAACGGTGGGC  
AGAGGTAGAGAGCGGGCCAGGGTGCAGGGCAGAAGTGTCCGAGTCCAAGTCCACATCCAG  
GTGTGCTGCCTGCCCTAGCGTCTCAAGGCCAAACCCACCCACCCACCCACCCAGCCTC  
AGGAAGCTGCTGTGGTCCCACATCCAAGGAGAAAGCCCTGCCATGCTCATGTGGTTG  
CCCTTTGGCCACTGGAGCCGCCAGACTCAAACACCCCTCAACGCATCAGGCCCCGTCCG  
ATAGGGAACGTAAACAGCCACCCCTTATCTTACCTCCTTCCAGACCTGGCCGTTCCG  
CCTTGGGCCCCACACACTTCCAGCCCTCATTACATGTCCCTCGTCCCTTCCATCCCC  
GTGGCGTGCACCCCTTTTCCACCTGTTCTCCATCTCTCGCCGGTCCGATCTCTTCAT  
CCCCAGACATCCCGACTCATCTTGTCACTTTGGTGGCTCCCCCTCCCCACTCCCCCT  
GTCACTGTCTTCCGCTCCCTCTACTCAACTCCCATGTTTCCCCCGCGTTCTTTTT  
CCCCCTCTTCCCTTCTTTCCCTCCTCCTATTCTTCCCTCACCTCGATTCTTT  
TTCCCCCTCCCCGCCCTTTTGGCCATTTATCCCCGTACCCAACACACACACCCCTTTCT  
CCCCCTTCTCTCGTTTCCCTGTTTCCACTTCGCTGCGTCCGCTTTATCCCCCTT

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_002751

**Insert Size:** 1120 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_002751.3](#), [NP\\_002742.3](#)

**RefSeq Size:** 1310 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 5600

**UniProt ID:** [Q15759](#)

**Cytogenetics:** 22q13.33

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** 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.