

## Product datasheet for **RN216529**

### Mapk9 (NM\_001270545) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mapk9 (NM\_001270545) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mapk9  
**Synonyms:** SAPK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN216529 representing NM\_001270545  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGTGACAGTAAAAGCGATGGCCAGTTTTACAGTGTGCAAGTGGCAGACTCAACTTTCACTGTTCTAA  
AACGTTACCAGCAGTTGAAACCAATTGGCTCTGGAGCCCAAGGAATTGTTGTGCTGCTTTTGATACAGT  
TCTTGGAAATAAATGTTGCTGTCAAGAAGTTAAGTCGTCCTTTTCAGAACCAAACGCATGCAAAGAGAGCC  
TACCGTGAACCTTGCTCCTAAAGTGTGTCAATCATAAAAATATAATTAGCTTGTAAATGTGTTACAC  
CACAAAAACGCTAGAAGAATCCAAGATGTGTACTTGTTATGGAGTTAATGGACGCTAACTTATGTCA  
GGTTATTCATATGGAGCTGGACCATGAAAGAATGTCATACCTCCTCTACCAGATGCTTTGTGGCATTAAAG  
CACCTGCATTCAGCTGGCATAATTCATAGGGATTTGAAGCCTAGCAACATTGTAGTAAAAATCAGACTGTA  
CTCTCAAGATCCTTGACTTTGGCCTGGCACGGACAGCCTGTACCAACTTTATGATGACTCCCTATGTGGT  
AACTCGTACTATCGGGCTCCAGAAGTCATCCTGGGCATGGGCTACAAGGAGAATGTTGATATCTGGTCA  
GTGGGTTGCATCATGGGAGAGCTGGTAAAAGTTGTGTGATATTCCAAGTACTGACCATTGATCAAT  
GGAATAAAGTTATTGAACAGCTAGGAACACCATCCGCAGAGTTCATGAAGAAACTTCAGCCAAGTAAAG  
GAATTATGTGAAAACAGACCAAAGTACCCTGGAATCAAATTTGAAGAGCTCTTTCCAGATTGGATATTT  
CCGTGAGAAATCCGAACGAGACAAAATAAAAACAAGTCAAGCCAGAGATCTGTTATCGAAAATGTTAGTGA  
TTGATCCGGACAAGCGGATCTCTGTGGACGAAGCCTTGCGCCACCCGTATATTACTGTTTGGTATGACCC  
CGCTGAAGCAGAAGCGCCACCACCTCAAATTTATGATGCCAGTTGGAAGAAAGAGAGCATGCGATTGAA  
GAGTGGAAAGAATAATTTACAAAGAAGTATGGACTGGGAAGAAAGAAGCAAGAATGGGGTAAAAGACC  
AGCCTTCAGCACAGATGCAGCAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



<b>ACCN:</b>	NM_001270545
<b>Insert Size:</b>	1146 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<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>	<u><a href="#">NM_001270545.1</a></u> , <u><a href="#">NP_001257474.1</a></u>
<b>RefSeq Size:</b>	3716 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	50658
<b>Cytogenetics:</b>	10q21
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the MAP kinase family. MAP kinases are multifunctional proteins. They are involved in a wide variety of cellular processes such as growth, proliferation, differentiation, transcription regulation, and development. They function in stress responses, apoptosis, inflammation and transformation. For example, this kinase plays a dominant role in mediating proliferation of lung cancer and prostate cancer cells, and in regulation of osmotic stress-induced tight junction disruption. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (3) is the longer transcript and has an alternate splice site in the 3' coding region, compared to variant 1. The resulting isoform (3) is shorter and has a 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>