

## Product datasheet for **RN216633**

### Mapk9 (NM\_001270544) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk9 (NM_001270544) 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:	>RN216633 representing NM_001270544 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTGACAGTAAAAGCGATGGCCAGTTTTACAGTGTGCAAGTGGCAGACTCAACTTTCACTGTTCTAA  
AACGTTACCAGCAGTTGAAACCAATTGGCTCTGGAGCCCAAGGAATTGTTGTGCTGCTTTTGATACAGT  
TCTTGGAAATAAATGTTGCTGTCAAGAAGTTAAGTCGTCCTTTTCAGAACCAAACGCATGCAAAGAGAGCC  
TACCGTGAACCTTGCTCCTAAAGTGTGTCAATCATAAAAAATATAATTAGCTTGTAAATGTGTTACAC  
CACAAAAACGCTAGAAGAATCCAAGATGTGTACTTGTTATGGAGTTAATGGACGCTAACTTATGTCA  
GGTTATTCATATGGAGCTGGACCATGAAAGAATGTACACCTCCTCTACCAGATGCTTTGTGGCATTAAAG  
CACCTGCATTCAGCTGGCATAATTCATAGGGATTTGAAGCCTAGCAACATTGTAGTAAAAATCAGACTGTA  
CTCTCAAGATCCTTGACTTTGGCCTGGCACGGACAGCCTGTACCAACTTTATGATGACTCCCTATGTGGT  
AACTCGTACTATCGGGCTCCAGAAGTCATCCTGGGCATGGGCTACAAGGAGAATGTGGACATCTGGTCT  
GTCGGGTGCATCATGGCAGAAAATGGTCTCCATAAAGTCCTGTTCCAGGAAGAGACTATTGATCAAT  
GGAATAAAGTTATTGAACAGCTAGGAACACCATCCGCAGAGTTCATGAAGAAACTTCAGCCAAGTAAAG  
GAATTATGTGAAAACAGACCAAAGTACCCTGGAATCAAATTTGAAGAGCTCTTTCCAGATTGGATATTT  
CCGTCCAGAAATCCGAACGAGACAAAATAAAAAACAAGTCAAGCCAGAGATCTGTTATCGAAAATGTTAGTGA  
TTGATCCGGACAAGCGGATCTCTGTGGACGAAGCCTTGCGCCACCCGTATATTACTGTTTGGTATGACCC  
CGCTGAAGCAGAAGCGCCACCACCTCAAATTTATGATGCCAGTTGGAAGAAAGAGAGCATGCGATTGAA  
GAGTGGAAAGAACTAATTTACAAAGAAGTATGGACTGGGAAGAAAGAAGCAAGAATGGGGTAAAGACC  
AGCCTTCAGATGCAGCAGTAAGCAGCAAGGCTACTCCTTCTCAGTCGTCATCCATCAATGACATCTCATC  
CATGTCCACTGAGCACACCCTGGCCTCAGACACAGACAGCAGTCTCGATGCCTCAACCGGACCCCTGGAA  
GGCTGCCGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001270544
<b>Insert Size:</b>	1272 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_001270544.1</a></u> , <u><a href="#">NP_001257473.1</a></u>
<b>RefSeq Size:</b>	3711 bp
<b>RefSeq ORF:</b>	1272 bp
<b>Locus ID:</b>	50658
<b>UniProt ID:</b>	<u><a href="#">P49186</a></u>
<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 (2) has an alternate exon in the coding region, compared to variant 1. The resulting isoform (2) is of the same size, but has a different internal segment, 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>