

## Product datasheet for **RR216633**

### Mapk9 (NM\_001270544) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk9 (NM_001270544) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk9
Synonyms:	SAPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216633 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTGACAGTAAAAGCGATGGCCAGTTTTACAGTGTGCAAGTGGCAGACTCAACTTTCACTGTTCTAA  
 AACGTTACCAGCAGTTGAAACCAATTGGCTCTGGAGCCCAAGGAATTGTTTGTGCTGCTTTTGTACAGT  
 TCTTGGAAATAAATGTTGCTGTCAAGAAGTTAAGTCGTCCTTTTCAGAACCAAACGCATGCAAAGAGAGCC  
 TACCGTGAACCTGCTCCTAAAGTGTGTCATCATAAAAAATAAATTAGCTTGTAAATGTGTTACAC  
 CAAAAAACGCTAGAAGAATCCAAGATGTGTACTTGGTTATGGAGTTAATGGACGCTAACTTATGTCA  
 GGTTATTCATATGGAGCTGGACCATGAAAGAATGTCATACCTCCTCTACCAGATGCTTTGTGGCATTAA  
 CACCTGCATTAGCTGGCATAATTCATAGGGATTTGAAGCCTAGCAACATTGTAGTAAAAATCAGACTGTA  
 CTCTCAAGATCCTTGACTTTGGCCTGGCACGGACAGCCTGTACCAACTTTATGATGACTCCCTATGTGGT  
 AACTCGCTACTATCGGGCTCCAGAAGTCATCCTGGGCATGGGCTACAAGGAGAATGTGGACATCTGGTCT  
 GTCGGGTGCATCATGGCAGAAATGGTCCCTCATAAAGTCCTGTTCCAGGAAGAGACTATATTGATCAAT  
 GGAATAAAGTTATTGAACAGCTAGGAACACCATCCGCAGAGTTTCAAGAAACTTCAGCCAACCTGTAAG  
 GAATTATGTGAAAAACAGACCAAAGTACCCTGGAATCAAATTTGAAGAGCTTTTCCAGATTGGATATTT  
 CCGTCAGAATCCGAACGAGACAAAATAAAAAACAAGTCAAGCCAGAGATCTGTTATCGAAAATGTTAGTGA  
 TTGATCCGGACAAGCGGATCTCTGTGGACGAAGCCTTGCGCCACCCGTATATTACTGTTTGGTATGACCC  
 CGCTGAAGCAGAAGCGCCACCACCTCAAATTTATGATGCCAGTTGGAAGAAAGAGAGCATGCGATTGAA  
 GAGTGGAAAGAACTAATTTCAAAGAAGTATGGACTGGGAAGAAAGAAGCAAGAATGGGGTAAAGACC  
 AGCCTTCAGATGCAGCAGTAAGCAGCAAGGCTACTCCTTCTCAGTCGTCATCCATCAATGACATCTCATC  
 CATGTCCACTGAGCACACCCTGGCCTCAGACACAGACAGCAGTCTCGATGCCTCAACCGGACCCCTGGAA  
 GGCTGCCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

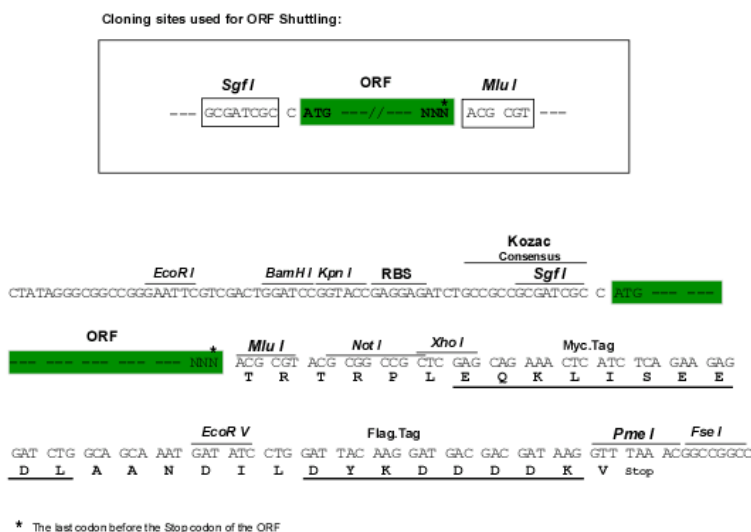
>RR216633 protein sequence  
 Red=Cloning site Green=Tags(s)

MDSKSDGQFYSVQVADSTFTVLKRYQLKPIGSGAQGIVCAAFDVLGINVAVKKLSRPFQNTAKRA  
 YRELVLLKCVNHKNIISLLNVFTPQKLEEFQDVYLMELMDANLCQVIHMELDHERMSYLLYQMLCGIK  
 HLHSAGIIHRDLKPSNIVVKSCTLKILDFGLARTACTNFMMPYVVTRYRAPEVILGMGYKENVDIWS  
 VGCIMAEMVLHKVLFPRDYIDQWNKVIEQLGTPSAEFMKKLQPTVRNYVENRPKYPGIKFEELFPDWIF  
 PSESERDKIKTSQARDLLSKMLVIDPDKRISVDEALRHPYITVWYDPAEAEAPPPQIYDAQLEEREHAIE  
 EWKELIYKEVMDWEERSKNGVKDQPSDAAVSSKATPSQSSSINDISSMSTEHTLASDTSDDLASTGPLE  
 GCR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001270544

**ORF Size:** 1269 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001270544.1](#), [NP\\_001257473.1](#)

**RefSeq Size:** 3711 bp

**RefSeq ORF:** 1272 bp

**Locus ID:** 50658

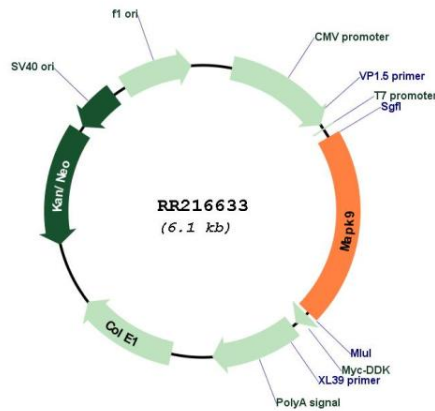
**UniProt ID:** [P49186](#)

**Cytogenetics:** 10q21

**MW:** 48.2 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RR216633