

## Product datasheet for **MR210269**

### Mapk6 (NM\_015806) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk6 (NM_015806) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk6
Synonyms:	2610021I23Rik; D130053K17Rik; Erk3; Mapk4; Mapk63; Prkm4; Prkm6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210269 representing NM\_015806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAGAAATTCGAAAGTCTCATGAACATTATGGCTTTGATCTGGGCTCTAGGTACATGGACTTAA  
 AACCATTTGGGCTGCGGAGGCAATGGCTTGGTCTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGC  
 CATCAAGAAAATTGTCCTCACCGATCCCCAGAGTGTCAAACATGCTCTCCGTGAAATCAAAATTATTCTGA  
 AGACTTGACCACGATAACATTGTGAAAGTGTGAAATTTCTGGTCCCAGTGGAAGCCAGTTAACAGACG  
 ATGTGGGCTCTCTCACGGAGCTGAATAGCGTCTACATTGTTCCAGGAGTATATGGAGACAGACTTGGCGAA  
 TGTGCTGGAGCAGGGCCCTTTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGTGGGCTC  
 AAATATATCCATTCTGCAAACGTAAGTGCACAGAGATCTCAAGCCAGCTAATCTTTTCATTAACACTGAAG  
 ACTTGGTCTGAAGATAGGTGACTTTGGCTGGCAGGATCATGGATCCTCATTATCCCATAAGGGTCA  
 TCTTTCTGAAGGATTGGTTACCAAATGGTACAGATCTCCACGGCTTTTACTTTCTCCTAATAATTACACT  
 AAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCTGAGATGCTGACTGGTAAAACCCCTCTTTGCGAG  
 GTGCACATGAACCTGAACAGATGCAGCTGATCCTCGACTCCATCCCTGTTGTGCACGAGGAGGATCGGCA  
 GGAGCTTCTCAGCGTGATTCCAGTTTACATTAGAAAACGACATGACTGAGCCACACAGACCCTCACTCAG  
 CTGCTGCCGGGGATCAGCCGAGAAGCACTGGATTTCTGGAGCAGATTCTGACTTTCAGCCCCATGGACC  
 GGCTGACAGCTGAGGAAGCCCTTTCCCATCCTTACATGAGCATCTACTCCTTCCCAGCGGATGAGCCCAT  
 CTCAAGCCACCCTTTCCACATAGAGGACGAAGTGGACGACATTTTGCTTATGGATGAAACACACAGTCAC  
 ATTTATAACTGGGAAAGTACCACGATTGTGAGTCTCGGAGCATGACTGGCCTATTGATAACAACCTTTG  
 ATATCGATGAGGTGACGTTGACCAAGAGCTCTGTCTGACGTCACCGATGAAGAAGAAGTCCAAGTTGA  
 TCCTCGAAAATACTTGGATGGAGACCGAGAGAAGTATCTAGAGGATCCCGCCTTCGACACCAGCTACTCT  
 GCTGAACCCTGCTGGCAGTACCCAGATCACACGAGAACAAGTACTGCGATCTGGAGTGTAGCCACACCT  
 GTAACACAAAACAAGATCATCACCATACTTAGATAAACCTGGTGTGGAGGGAGAGCGAGGTTAACCATTA  
 CTATGAGCCCAAGCTTATTATAGATCTTTCCAACCTGGAAAGAGCAAAGTAAAGAAAAATCCGATAAGAGA  
 GGCAAGTCCAAGTGTGAGAGGAACGGGTTGGTCAAGGCGCAGATCGCGCTAGAGGAAGCATCCCAGCAGC  
 TGGCTGAGAGGGAGAGGGCCCAAGGCTTCGACTTTGACTCCTTCATCGCGGGGACCATTCCAGCTCAGTGC  
 CCAGCATCAGTCTGCTGACGTAGTTGACAAGTTAAACGACTTGAATAGCTCAGTGTCCAGCTAGAATTG  
 AAAAGCCTGATATCCAAGTCAGTCAGCCGAGAAAAGCAAGAAAAGGGAAGGGCTAACCTGGCCCAGCTGG  
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 GTTTTGTTGTGAGGTGAGGAAGGACGAGCATGCGGAGAAGGAGAACACCTACACCAGCTATTTGGACAAG  
 TTTTTTAGCAGGAAGGAGGATTCCGAAATGCTAGAAAAGTGGCCAGTGGAGGAAGGGAAGCGTGGGGAGA  
 GAGGCCGTGAGGCAGGGCTTCTGAGCGCGGTGGGGAGTTCTCCTGAGCAAGCAGCTGGAGTCCATAGG  
 CACCCCGCAGTTCACAGCCAGTGGGGTCCCCACTCAAGTCCATCCAGGCCACCTTGACACCTTCCGCT  
 ATGAAATCTTCCCTCAAATCCCTCACAAAGACATACAGCAGCATTCTGAAACATCTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210269 representing NM\_015806  
Red=Cloning site Green=Tags(s)

MAEFESLMNIHGFDLGSRYMDLPLGCGGNL VFSAVDNDCKRVAIKKIVL TDPQSVKHALREIKIIR  
 RLDHDNI VKVFEILGPSGSQLTDDVGS LTELNSVYIVQYEMETDLANVLEQGPLEEHARLFMYQLRGL  
 KYIHSANVLRDLK PANLFINTE DLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLSPNNYT  
 KAIDMWAAGCIFAEMLTGKTLFAGAHELEQMQLILDSIPVVHEEDRQELLSVIPVYIRNDMTEPHRPLTQ  
 LLPGISREALDFLEQILTFSPMDRLTAEALSHPYMSIYSFPTDEPISSHPFHIEVDDILLMDETHSH  
 IYNWERYHDCQFSEHDWPIHNNFDIDEVQLDPRALSDVTDEEEVQVDPKRYLDGDREKYLEDPAFDTSYS  
 AEPCWQYPDHENKYCDLECSHTCNYKTRSSPYLDNLVWRESEVNHYEPKLIIDL SNWKEQSKEKSDKR  
 GKSKCERNGLVKAQIALEEASQQLAERERGGQFDFDSFIAGTIQLSAHQQSADVVDKLNLDN SSVS QLEL  
 KSLISKSVSREKQEKGRANLAQLGALYQSSWDSQFVSGGEECF LISQFCCEVRKDEHAEKENTYTSYLDK  
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 MKSSPQIPHKTYSSILKHLN

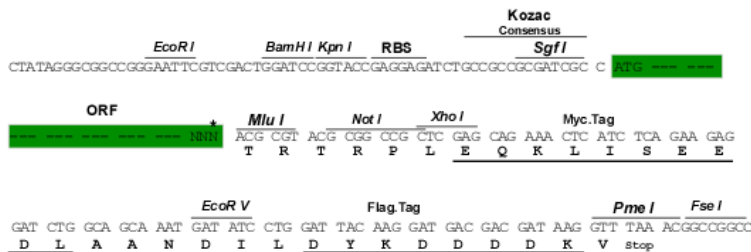
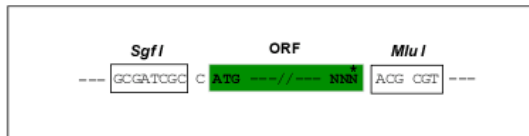
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9009\\_g07.zip](https://cdn.origene.com/chromatograms/mm9009_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015806

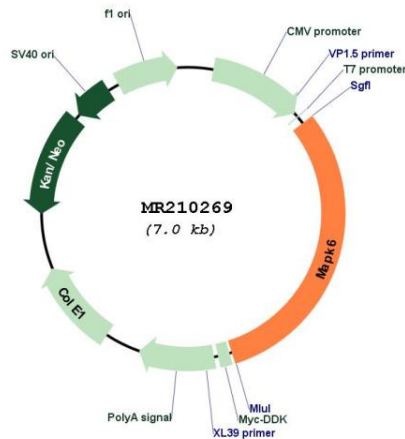
**ORF Size:** 2160 bp

**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.

<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>NM_015806.5, NP_056621.4</u>
<b>RefSeq Size:</b>	4110 bp
<b>RefSeq ORF:</b>	2163 bp
<b>Locus ID:</b>	50772
<b>UniProt ID:</b>	<u>Q61532</u>
<b>Cytogenetics:</b>	9 42.3 cM
<b>MW:</b>	82.6 kDa
<b>Gene Summary:</b>	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210269