

## Product datasheet for **RR209540**

### Map2k1 (NM\_031643) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Map2k1 (NM\_031643) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Map2k1  
**Synonyms:** Mek1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209540 representing NM\_031643  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCAAGAAGAAGCCGACGCCCATCCAGCTGAACCCGGCCCCGATGGCTCCGCGTTAACGGGACCA  
GCTCGGCCGAGACCAACCTGGAGCCTTGACAGAAGAAGCTGGAGGAGCTGGAGCTGGACGAGCAGCAGCG  
GAAGCGCCTTGAGGCCTTCTGACGCAGAAGCAGAAGGTGGGAGAGTTGAAGGATGATGACTTTGAGAAG  
ATCAGTGAAGTGGGGCTGGCAATGGTGGAGTGGTGTTC AAGGCTCCCACAAGCCATCTGGCCTGGTTA  
TGGCTAGGAAGCTAATCACCTGGAGATCAAACCCGCAATCCGGAACCAGATCATCCGGGAGCTGCAGGT  
GCTGCATGAGTGAACCTCCCGTACATAGTGGGCTTCTACGGGGCCTTCTACAGTGACGGCGAGATCAGC  
ATCTGCATGGAGCACATGGATGGTGGTCTTGGATCAAGTGTGAAGAAAGCTGGAAGAATTCCTGAGC  
AAATTTTAGGAAAAGTCAGCATCGCTGTGATAAAAGGCCGATATCTACGAGAGAAGCACAAGATTAT  
GCACAGAGATGTCAAGCCTTCCAACATTCTAGTGAACCTCACGTGGGAGATCAAACCTCTGCGATTTTGGG  
GTCAGCGGGCAGTAATTGACTCCATGGCAACTCCTTCGTGGGAACAAGGTCTACATGTCGCCTGAGA  
GACTCCAGGGGACTCACTACTGTGTGCAGTCGGACATCTGGAGCATGGGGCTCTCTGTTGGAGATGGC  
AGTTGGAAGATACCCATTCTCTCTCTGATGCCAAGGAGCTGGAGCTGCTGTTTGGATGCCAGGTGGAA  
GGAGACGCGGCCGAAACGCCACCCAGGCCAAGGACCCCTGGGAGGCCCTCAGCTCATATGGAATGGATA  
GCCGACCTCCCATGGCAATTTTGGATTGTTGGATTACATCGTCAATGAGCCTCTCCAAAACCTGCCAG  
TGGAGTATTCAGTCTGGAATTTTCAAGATTTTGTGAATAAGTGCTTAATAAAGAACCCTGCAGAGAGAGCA  
GATCTGAAGCAGCTCATGGTACATGCTTTCATCAAGAGATCTGATGCCGAGGAGGTAGACTTCGACAGCT  
GGCTCTGCTCCACCATTGGGCTTAACAGCCAGCACACCAACCCACGCTGCCAGCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>ORF Size:</b>	1179 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_031643.4</a> , <a href="#">NP_113831.1</a>
<b>RefSeq Size:</b>	2151 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	170851
<b>UniProt ID:</b>	<a href="#">Q01986</a>
<b>Cytogenetics:</b>	8q24
<b>MW:</b>	43.5 kDa
<b>Gene Summary:</b>	kinase that activates Mapk3 (Erk1) and Mapk1 (Erk2) kinases [RGD, Feb 2006]