

## Product datasheet for **MR206994**

### Map2k5 (BC028260) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map2k5 (BC028260) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map2k5
Synonyms:	MEK5, Mapkk5, Prkmk5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR206994 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTGGCTGGCCCTTGGCCCTTCTGTGCCATGGAGAACCAGGTGCTGGTGATTTCGGATCAAGATTC  
 CAAATAGTGGCGCGGTGGACTGGACCGTCACTCCGGGCCGAGTTACTCTTCAGGGATGTTCTGGATGT  
 GATAGGCCAGGTTCTGCCTGAAGCGACGACGACAGCGTTTGAATATGAAGATGAAGATGGTGATAGGATT  
 ACAGTAAGAAGCGATGAAGAGATGAAGGCAATGCTGTCCTACTATTATCCACAGTAATGGAACAGCAAG  
 TAAATGGCCAGCTAATAGAGCCGCTGCAGATATTTCCAAGAGCCTGCAAGCCTCTGGGGAACGGAACAT  
 ACATGGCCTGAAGGTGAATACACGGCTGGGCCATCTCAACACACCAGCCCTGTGGTCTCAGATTCACTT  
 CCAAGCAATAGCTGAAGAAGTCTCAGCTGAAGTACTGAGAAAGATACTGGCCAACGGCCAGATGAATGAAC  
 AAGACATACGGTATCGAGACACCCTTGGTCATGGCAACGGAGGCACAGTCTACAAAGCACATCATGTCCC  
 AAGTGGGAAAATTTAGCTGTAAGGTTATTCTGTTAGACATTACTGGAGCTTCAGAAGCAGATCATG  
 TCTGAGCTGGAATCCTTTATAAGTGTGACTCATCGTATATCATAGGATTTTACGGGGCATTTCGTTAG  
 AAAACAGGATTTCAATTTGTACAGAATTCATGGATGGGGGTCTTTGGATGTATATAGGAAAATTCAGA  
 GCACGTCCTTGAAGAATTGCAGTTGCAGTTGTTAAAGGCCTTACCTATCTGTGGAGTTTAAAGATTTTA  
 CACAGAGATGTGAAGCCCTCCAACATGCTTGTAAACACAGGCGGACAGGTCAAGCTGTGTGACTTTGGCG  
 TGAGCACACAGCTGGTGAATTCTATAGCCAAGACGTATGTTGGAACAAATGCTTACATGGCACCAGAAA  
 AATTTACAGGAGACAGTATGGGATCCATTCTGACGTGTGGAGCTTAGGAATCTCTTTCATGGAGCTTGCT  
 CTTGGGAGGTTCCATATCCTCAGCCTCCAGCTTCTGCAGTGCATTGTTGATGAGGATTCGCCGGTCC  
 TTCTCTTGGAGAGTTCTCGGAGCCGTTTGTACATTTCACTCACTCAGTGCATGAGGAAGCAGCCCAAGGA  
 GAGACCGCGCCTGAGGAGCTGATGGGTACCCATTTCATCGTGCAGTTCAATGATGGAAACTCCACTGTG  
 GTGTCCATGTGGGTGTGCCGAGCTCTAGAGGAGAGGCGGAGCCAGCAGGGACCCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206994 protein sequence  
 Red=Cloning site Green=Tags(s)

MLWLALGPFCA MENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLVDVIGQVLP EATTTAFEYEDEDGDRI  
 TVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPGERNIHGLKVNTRAGPSQHTSPVSDSL  
 PSNSLKKSSAELRKILANGQMNEQDIRYRDTLGHGNGGTVYKAHVPSGKILAVKVILLDITL ELQKQIM  
 SELEILYKCDSSYIIGFYGAFFVENRISICTEFMDGGS LDVYRKIPEHVLGRIAVAVVKGLTYLWLSKIL  
 HRDVKPSNMLVNTGGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWSLGISFMELA  
 LGRFPYPQPLQLLQCI VDEDSPVPLGFEFSEPFVHFITQCMRKQPKERPAPEELMGHPFIVQFNDGNSTV  
 VSMWVCRAL EERRSQGPP

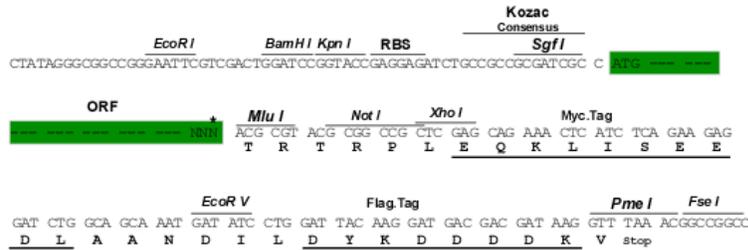
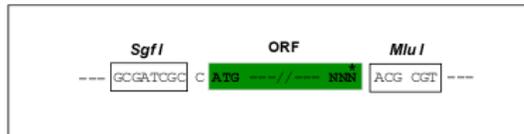
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** BC028260

**ORF Size:** 1317 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:** [BC028260](#), [AAH28260](#)
**RefSeq Size:** 2149 bp

**RefSeq ORF:** 1319 bp

**Locus ID:** 23938

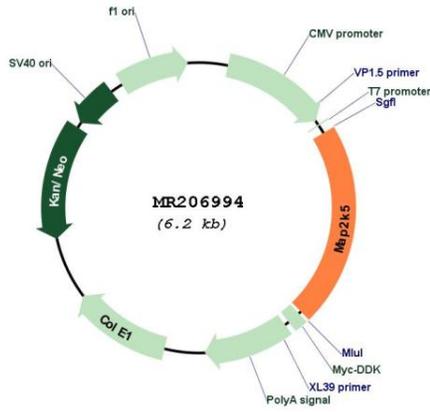
**Cytogenetics:** 9 B-C

**MW:** 49.1 kDa

**Gene Summary:**

Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206994