

## Product datasheet for **MG206994**

### Map2k5 (BC028260) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map2k5 (BC028260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map2k5
Synonyms:	MEK5, Mapkk5, Prkmk5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206994 representing BC028260 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTGGCTGGCCCTTGGCCCTTCTGTGCCATGGAGAACCAGGTGCTGGTGATTCCGGATCAAGATTC  
CAAATAGTGGCGCGTGGACTGGACCGTGCCTCCGGCCGAGTTACTCTTCAGGGATGTTCTGGATGT  
GATAGGCCAGGTTCTGCCTGAAGCGACGACGACAGCGTTGAATATGAAGATGAAGATGGTATAGGATT  
ACAGTAAGAAGCGATGAAGAGATGAAGCAATGCTGTCCTACTATTATCCACAGTAATGGAACAGCAAG  
TAAATGGCCAGCTAATAGAGCCGCTGCAGATATTTCCAAGAGCCTGCAAGCCTCCTGGGGAACGGAACAT  
ACATGGCCTGAAGGTGAATACACGGGCTGGCCATCTCAACACACCAGCCCTGTGGTCTCAGATTCACTT  
CCAAGCAATAGCTTGAAGAAGTCCCTCAGCTGAACTGAGAAAGATACTGGCCAACGGCCAGATGAATGAAC  
AAGACATACGGTATCGAGACACCCTTGGTCATGGCAACGGAGGCACAGTCTACAAAGCACATCATGTCCC  
AAGTGGGAAAAATTTAGCTGTAAGGTTATTCTGTTAGACATTACACTGGAGCTTCAGAAGCAGATCATG  
TCTGAGCTGGAATCCTTTATAAGTGTGACTCATCGTATATCATAGGATTTTACGGGGCATTTTTTCGTAG  
AAAACAGGATTTCAATTTGTACAGAATTCATGGATGGGGGTCTTTGGATGTATATAGGAAAATTCAGA  
GCACGTCCTTGAAGAATTGCAGTTGCAGTTGTTAAAGGCCTTACCTATCTGTGGAGTTTAAAGATTTTA  
CACAGAGATGTGAAGCCCTCCAACATGCTTGTAAACACAGCGGACAGGTCAAGCTGTGTGACTTTGGCG  
TGAGCACAGCTGGTGAATTCATAGCCAAGAGGTATGTTGGAACAAATGCTTACATGGCACCAGAAAAG  
AATTTTCAGGAGAGCAGTATGGGATCCATTTCTGACGTGTGGAGCTTAGGAATCTCTTTTCATGGAGCTTGCT  
CTTGGGAGGTTTCCATATCCTCAGCCTCTCCAGCTTCTGCAGTGCATTGTTGATGAGGATTCCGCCGTCC  
TTCCTCTTGGAGAGTTCTCGGAGCCGTTTGTACATTTTCATCACTCAGTGCATGAGGAAGCAGCCCAAGGA  
GAGACCGGCCCTGAGGAGCTGATGGGTCACCCATTATCGTGCAGTTCAATGATGGAACTCCACTGTG  
GTGTCCATGTGGGTGTGCCGAGCTCTAGAGGAGAGGGCGGACCCAGCAGGGACCCCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206994 representing BC028260  
 Red=Cloning site Green=Tags(s)

```

MLWLAGPFCAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLVIGQVLP EATTTAFEYEDEDGDRIT
TVRSDEEMKAMLSY YYSTVMEQQVNGQLIEPLQIFPRACKPPGERNIHGLKVNTRAGPSQHTSPVSDSL
PSNSLKKSSAELRKILANGQMNEQDIRYRDTLGHGNGGTVYKAHHVPSGKILAVKILLDITL ELQKQIM
SELEILYKCDSSYIIGFYGAFFVENRISICTEFMDGGS LDVYRKIPEHVLGRIAVAVVKGLTYLWLSKIL
HRDVKPSNMLVNTGGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWLSGISFMELA
LGRFPYPQPLQLLQCIVDEDSPVLP LGEFSEPFVHFITQCMRKQPKERP APEELMGHPFIVQFNDGNSTV
VSMWVCRAL EERSQQGPP
  
```

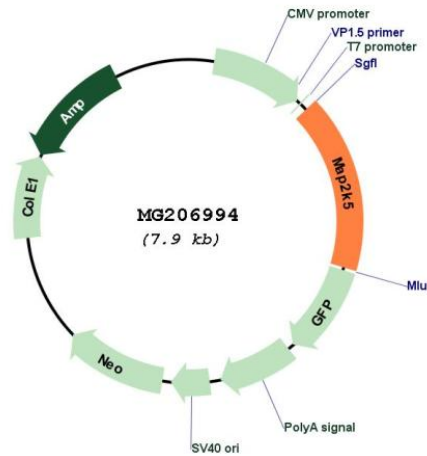
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC028260

<b>ORF Size:</b>	1319 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="#">BC028260</a> , <a href="#">AAH28260</a>
<b>RefSeq Size:</b>	2149 bp
<b>RefSeq ORF:</b>	1319 bp
<b>Locus ID:</b>	23938
<b>Cytogenetics:</b>	9 B-C
<b>Gene Summary:</b>	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]