

Product datasheet for **MG201496**

Map2k3 (BC007467) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map2k3 (BC007467) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Map2k3
Synonyms: MEK3, MKK3, mMKK3b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201496 representing BC007467
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCGCCCCCGCGAGCCCCGCCGAGCTTGCCTCAGACCAAAGGAAAATCCAAAAGGAAAAAGG
ACTTACGGATATCCTGCGTGTCCAAGCCACCTGTGTCCAACCCACACCCCCCGGAACCTGGACTCCCG
GACCTTCATCACTATCGGAGACAGAACTTCGAAGTGGAGGCTGATGACTTGGTGACCATCTCAGAGCTG
GGTCGTGGAGCCTATGGGGTGTAGAGAAAGTGCGGCATGCTCAGAGTGGTACCATCATGGCTGTCAAGC
GCATCCGGGCCACAGTGAACACACAGGAGCAGAAACGTCTGCTTATGGACCTAGACATCAACATGCGCAC
GGTCGACTGCTTCTACACTGTCACCTTCTATGGTGCCCTTTCAGAGAGGGGGATGTATGGATCTGCATG
GAGCTCATGGACACTTCCTGGATAAGTTCTACCGGAAGGTGCTGGAGAAGAACATGAAAATTCCGGAAG
ACATCCTGGGGGAGATCGCTGTGTCTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201496 representing BC007467
Red=Cloning site Green=Tags(s)

MESPAASPPASLPQTKGKSKRKKDLRISCVSKPPVSNPTPPRNLDSTRFITIGDRNFEVEADDLVTISEL
GRGAYGVVEKVRHAQSGTIMAVKRIRATVNTQEQRLLMDLDINMRTVDCFYTVTFYGFALFREGDVVICM
ELMDTSLDKFYRKVLEKNMKIPEDILGEIAVSM

TRTRPLE - GFP Tag - V

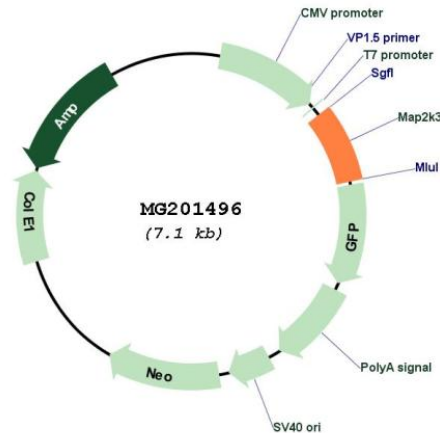
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: BC007467

ORF Size: 521 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:	<ol style="list-style-type: none">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:	<u>BC007467</u> , <u>AAH07467</u>
RefSeq Size:	2096 bp
RefSeq ORF:	521 bp
Locus ID:	26397
Cytogenetics:	11 B2
Gene Summary:	Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.[UniProtKB/Swiss-Prot Function]