

## Product datasheet for **MG223494**

### Map2k2 (NM\_023138) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Map2k2 (NM\_023138) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Map2k2  
**Synonyms:** AA589381; MEK2; MK2; Prkmk2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223494 representing NM\_023138  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGCCCGGAGGAAGCCGGTGTACCGGCACTCACTATCAACCCTACCATCGCCGAGGGCCCGTCCC  
 CCACCAGCGAGGGCGCCTCTGAGGCAAACCTGGTGGACCTCCAGAAGAAGCTGGAAGAGCTGGACCTGGA  
 TGAGCAGCAAAGGAAGCGGCTGGAGGCCCTTCTTACCCAGAAGGCTAAGGTCGGTGAAGCTCAAGGACGAC  
 GACTTTGAGAGGATCTCAGAGCTGGGTGCCGGCAATGGCGGAGTGGTACCAAGGCCCGCATAGGCCGT  
 CAGGCCTCATCATGGCCAGAAAGCTGATCCACCTGGAGATCAAACCGGCCGTGCCAACCAGATCATCCG  
 GGAGCTGCAGGTGCTGCACGAGTGAACCTACATCGTGGGCTTCTATGGGGCCTTACAGCGAC  
 GGCAGATCAGCATCTGCATGGAGCACATGGATGGTGGCTCACTGGACCAGGTAAGGAGGCAAGC  
 GGATTCCTGAAGACATCTTGGGGAAGGTGAGCATTGCGGTGCTCCGGGGCCTGGCCTACCTCCGAGAGAA  
 GCACCAGATCATGCACAGAGATGTGAAGCCCTCCAACATCCTGGTGAACCTCGCGGGGAGATTAAGCTG  
 TGTGACTTCGGGGTGAAGCGCCAGCTGATCGACTCCATGGCCAACCTCGTTTGTAGGGACGCGCTCCTACA  
 TGTCCCAAGAGCGGCTGCAGGGCACCCACTACTCTGTGCAGTCCGACATCTGGAGCATGGGGCTGTGCT  
 GGTGGAGCTGGCCATCGGGAGGTATCCCATTCCCCACCTGATGCCAAGGAACTAGAGGCCAGCTTTGGC  
 CGGCCTGTGGTGGACGGGGCAGACGGAGAACCCATAGTGTCTCCCCGAGGCCAGGCCCTGGACGCC  
 CCATCAGTGGTCAATGGGATGGACAGCCGACCGCCATGGCCATCTTTGAGCTGCTGGACTACATAGTGAA  
 CGAGCCACCTCCCAAGCTGCCAGTGGTGTGTTCACTCAGACTTCCAGGAGTTTGTGAATAAATGTCTC  
 ATTAAGAACCAGCAGAGCGAGCAGATCTGAAGCTGCTGATGAACCACGCTTTCATCAAGCGCTCTGAGG  
 GGGAGGAAGTGGACTTCGCCGGCTGGCTGTGCAGAACCCTGCGGCTGAAGCAGCCAGCACACCCACGCG  
 GACTGCAGTG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223494 representing NM\_023138  
 Red=Cloning site Green=Tags(s)

MLARRKPVLPALTINPTIAEGPSPTSEGASEANLVDLQKKLEELDLDEQQRKLEAFLTQKAKVGEKDD  
 DFERISELGAGNGGVVTKARHRPSGLIMARKLIHLEIKPAVRNQIIRELQVLHECNSPYIVGFYGFYSD  
 GEISICMEHMDGGSLDQVLKEAKRIPEDILGKVSIAVLRGLAYLREKHQIMHRDVKPSNILVNSRGEIKL  
 CDFGVSGQLIDSMANSFVGTRSYMSPERLQGTHYSVQSDIWSMGLSLVELAIGRYPISPPDAKELEASFG  
 RPVVDGADGEPHSVSPRPPGPRISGHGMSRPAMAI FELLDYIVNEPPPKLPSGVFSSDFQEFVNKCL  
 IKNPAERADLKLLMNHAFIKRSEGEVDFAGWLCRTLRLKQPSTPRTAV

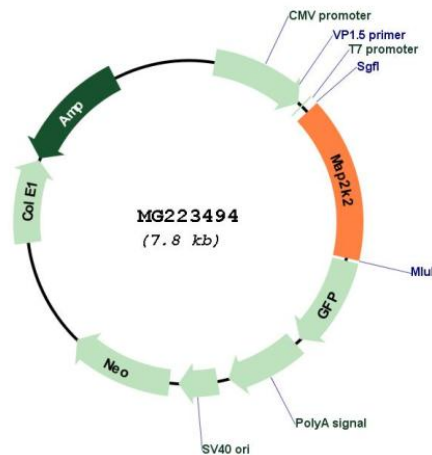
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_023138

<b>ORF Size:</b>	1203 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_023138.4</a> , <a href="#">NP_075627.2</a>
<b>RefSeq Size:</b>	2387 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	26396
<b>UniProt ID:</b>	<a href="#">Q63932</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases. [UniProtKB/Swiss-Prot Function]