

## Product datasheet for RC214358

### MEKK1 (MAP3K1) (NM\_005921) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MEKK1 (MAP3K1) (NM\_005921) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MEKK1  
**Synonyms:** MAPKKK1; MEKK; MEKK 1; MEKK1; SRXY6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-Myc-DDK (PS100007)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RC214358 representing NM\_005921  
 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC214358 representing NM\_005921  
Red=Cloning site Green=Tags(s)

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**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4394\\_a01.zip](https://cdn.origene.com/chromatograms/mg4394_a01.zip)

**Restriction Sites:** EcoRI-MluI

**Cloning Scheme:**

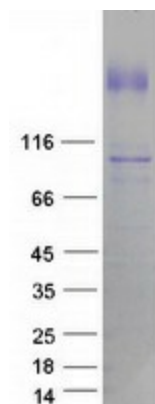
**ACCN:** NM\_005921

**ORF Size:** 4536 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_005921.2</a>
<b>RefSeq Size:</b>	7522 bp
<b>RefSeq ORF:</b>	4539 bp
<b>Locus ID:</b>	4214
<b>UniProt ID:</b>	<a href="#">Q13233</a>
<b>Cytogenetics:</b>	5q11.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, RIG-I-like receptor signaling pathway, Ubiquitin mediated proteolysis
<b>MW:</b>	164.3 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a serine/threonine kinase and is part of some signal transduction cascades, including the ERK and JNK kinase pathways as well as the NF-kappa-B pathway. The encoded protein is activated by autophosphorylation and requires magnesium as a cofactor in phosphorylating other proteins. This protein has E3 ligase activity conferred by a plant homeodomain (PHD) in its N-terminus and phospho-kinase activity conferred by a kinase domain in its C-terminus. [provided by RefSeq, Mar 2012]

**Product images:**

Coomassie blue staining of purified MAP3K1 protein (Cat# [TP314358]). The protein was produced from HEK293T cells transfected with MAP3K1 cDNA clone (Cat# RC214358) using MegaTran 2.0 (Cat# [TT210002]).