

Product datasheet for RC216130L3

OriGene Technologies, Inc.

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MEKK3 (MAP3K3) (NM_203351) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MEKK3 (MAP3K3) (NM_203351) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: MEKK3

Synonyms: MAPKKK3; MEKK3

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216130).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_203351

ORF Size: 1971 bp





MEKK3 (MAP3K3) (NM_203351) Human Tagged Lenti ORF Clone - RC216130L3

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: <u>NM 203351.1</u>

RefSeq Size: 4843 bp
RefSeq ORF: 1974 bp
Locus ID: 4215

UniProt ID: Q99759
Cytogenetics: 17q23.3

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway

MW: 73.9 kDa

Gene Summary: This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its

catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by

activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFKB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul

2008]