

## Product datasheet for MR231754

### Map4k4 (NM\_001252200) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k4 (NM_001252200) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map4k4
Synonyms:	9430080K19Rik; AU043147; AU045934; AW046177; HGK; Nik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231754 representing NM_001252200 Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTTGTAGCTGGTGAAGTGGTTGGAAATGGCACCTATGGACAAGTCTATAAGGGTCGACATGTTAAAC  
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GGAGCAAACCGAGCTTTCATGCTCCAGAGCCCAAGCCTCACTATGACCCTGCTGACAGAGCTCGGGAGGT  
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Protein Sequence: >MR231754 representing NM\_001252200  
 Red=Cloning site Green=Tags(s)

MANDSPAKSLVDIDLSSLRDPAGIFELVEVVGNGTYGQVYKGRHVKTGQLAAIKVMDVTEDEEEEIKLEI  
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 AALWGVNLLVGTESGLMLLDRSGQGVYPLISRRRFQQMDVLEGLNVLVTISGKKDKLRVYVLSWLRNKI  
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 LLVDLTVEEGQRLKVIYGSCAGFAVDVDSGSVYDIYLPHTHIQCSIKPHAI IILPNTDGMELLVCYEDEG  
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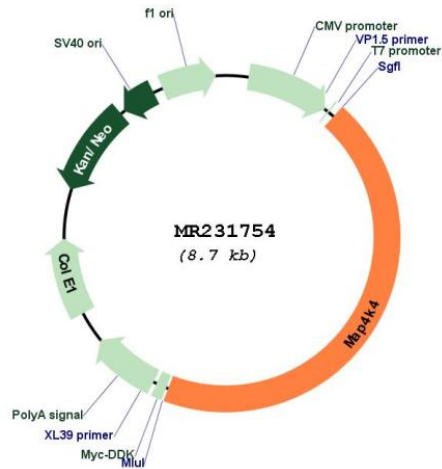
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001252200

**ORF Size:** 3864 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:**

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:** [NM\\_001252200.1](#), [NP\\_001239129.1](#)

**RefSeq Size:** 5782 bp

**RefSeq ORF:** 3867 bp

**Locus ID:** 26921

**UniProt ID:** [P97820](#)

**Cytogenetics:** 1 B

**MW:** 147.2 kDa

**Gene Summary:** Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr-322 (By similarity).[UniProtKB/Swiss-Prot Function]