

## Product datasheet for **MR231341**

### Map4k3 (NM\_001290345) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k3 (NM_001290345) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map4k3
Synonyms:	4833416M01Rik; 4833416M07Rik; 9530052P13Rik; Glk; MAPK3; MEK3; MEK3; RAB8IPL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR231341 representing NM\_001290345  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAACCCGGGCTTCGATCTGTCCCGCCGGAACCCGAGGAGACTTCGAGCTGATCCAGCGCATCGGCA  
GCGGCACCTACGCGCAGCTCTACAAGGCACGGAATGTCAACACTGGAGAATTAGCAGCAATTAAGTGAT  
AAAATTGGAACAGGAGAAGACTTTGCGGTTGTACAGCAAGAAATCATTATGATGAAAGACTGCAAACAC  
CCAAACATTGTTGCTTATTTGGAAGCTATCTCAGGCGAGATAAACTTTGGATTTGCATGGAATTCTGTG  
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CAATTGCCAAACGGAAGTCTTCATTGGAACGCCATATTGGATGGCCCCAGAAGTCGCGGCTGTTGAGAG  
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CAGCCACCATGTTTACCTTACCCGATGAGGGCATTGTTTCTAATGACAAAAAGCAATTTCCAGCCTC  
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GTATGTGATGAACAATTGCCTGTCTGAGTCTCGGGCAAAGCCTCTCAGCTTTACTCCCAACTTACCG  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231341 representing NM\_001290345  
 Red=Cloning site Green=Tags(s)

MNPGFDLRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQEIIMMKDCKH  
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 QPPMFDLHPMRALFLMTKSNFQPPKLDKDLKWSNSFHHFVKMALTKNPKKRPNAEKLLQHPFVTQPLTRS  
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 ELPDSDGFFDSSEEIYYTARSNLDLQLEYGQGHQSHCF LGGNKSLLLKSVEEELHQRGHVAHLEDDGDDD  
 DSKHSTMKAKVPPPLPPKPKSIFIPQDTHSAEDGNQGTIKRCPSSGSPAKPSHVPPRPPPPRLPPQKPAV  
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 CATSWINPDTRDQYLIFGAE EGIYTLNLNELHETSMEQLFPRRCTWL YVMNCLLSVSGKASQLYSHNLP  
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 WVEPMQKFMLIKHIEFMPMPCLRMFEMLVVPEQEYPLVCVGVSRGRDFNQVVRFE TVNPNSTSSWF TESD  
 APQTSVTHVTQLERDTILVCLDCCIKIVNLQGRLLKSSRKL SSELTFDFQIESIVCLQDSVLAFAWKHGMQG  
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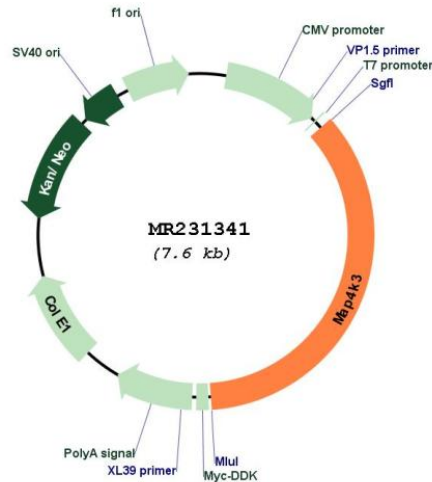
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001290345

**ORF Size:** 2682 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\\_001290345.1](#), [NP\\_001277274.1](#)

**RefSeq Size:** 4176 bp

**RefSeq ORF:** 2685 bp

**Locus ID:** 225028

**UniProt ID:** [Q99JP0](#)

**Cytogenetics:** 17 E3

**MW:** 101.6 kDa

**Gene Summary:** May play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway (By similarity).[UniProtKB/Swiss-Prot Function]