

## Product datasheet for **MR218414**

### Map4k3 (NM\_001081357) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k3 (NM_001081357) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map4k3
Synonyms:	4833416M01Rik; 4833416M07Rik; 9530052P13Rik; Glk; MAPK3; RAB8IPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR218414 representing NM\_001081357  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCCGGGCTTCGATCTGTCCCGCCGGAACCCGAGGAGACTTCGAGCTGATCCAGCGCATCGGCA  
 GCGGCACCTACGCGACGTCTACAAGGCACGGAATGTCAACACTGGAGAATTAGCAGCAATTAAGTGAT  
 AAAATTGGAACAGGAGAAGACTTTGCGGTTGTACAGCAAGAAATCATTATGATGAAAGACTGCAAACAC  
 CCAAACATTGTTGCTTATTTGGAAGCTATCTCAGGCGAGATAAACTTTGGATTTGCATGGAATTCTGTG  
 GAGGTGGCTCTTACAGGACATATCATGTAAGTGGACCCCTTCAGAACTGCAGATTGCATATGTTAG  
 CAGAGAACTCTACAGGATTGTATTACCTTACAGTAAAGGAAAAATGCACCGAGATATAAAGGGCGCT  
 AACATTCTCTAACGGATAATGGTCACGTGAACTAGCTGATTTTGGAGTTTCTGCACAGATAACAGCTA  
 CAATTGCCAAACGGAAGTCCCTTATTGGAACGCCATATTGGATGGCCCCAGAAGTCGCGGCTGTTGAGAG  
 GAAAGGCGGGTACAATCAACTGTGTGACCTCTGGGCGGTGGGCATCACTGCCATCGAGCTGGCGGAGCTC  
 CAGCCACCATGTTTACCTTACCCGATGAGGGCATTGTTTCTAATGACAAAAAGCAATTTCCAGCCTC  
 CTAAACTAAAAGATAAGTTGAAGTGGTCAAAATAGTTTCCATCATTGTTGTAAGATGGCTCTTACAAAAA  
 TCCAAAGAAAAGACCCAAATGCAGAAAAGCTGTTACAGCATCCCTTTGTCACACAGCCTCTGACACGGTCT  
 TTGGCAATCGAGTTGCTGGACAAAGTGAATAATCCAGACCATTCCACATACCACGATTTTGTATGATGATG  
 ACCCAGAGCCTCTTGTGCGGTACCACATAGAATTCCTTCAACGAGTAGAAAATGTGAGAGAAGAAAAAC  
 ACGCTCAGAGATAAACTTTGGCCAGGTAATAATTTGATCCGCCCTTAAGGAAGGAGACAGACCCACATCAC  
 GAACTCCCGACAGTGTGGTTTTTTCGACAGTTCAGAAGAAATATACTACACTGCAAGATCTAATCTGG  
 ATCTGCAACTAGAGTACGGACAAGGACCAAGCCATTGCTTCTTAGGTGGCAACAAGTCTTCTGAA  
 GTCTGTTGAAGAGGAATTACATCAGCGAGGACATGTGGCACACTTAGAAGATGACGAAGGCGACGATGAC  
 GACTCTAAGCATTCAACCATGAAAGCAAAAAGTCCCGCCTCCTCTGCCACCAAAGCCTAAATCCATCTTCA  
 TACCACAGGATACACATTCTGCTGAGGACGGTAATCAAGGAACAATCAAGAGATGTCCTCATCAGGGAG  
 CCCGGCAAAGCCATCCCACGTTCCACCTAGACCACCTCCGCCAGGTTACCGCCACAGAAGCCTGCTGTT  
 TTAGGAAATGGAGTGAATCCTTCCAGCTAAATGGTGAGCGAGACGGATCATTATATCAGCAGCAGAGTG  
 AGCAAAGAGGCACAAACCTTTCAAGAAAGGAGAAGAAGGACGTCGCCGAAACCAATTAGTAATGGTCTTCC  
 CCCAACACCTAAAGTGCATATGGGAGCGTGTTTTTCAAAGTTTTTAATGGATGTCCCTTAAAAATCCAC  
 TGTGCCACATCCTGGATAAACCAGACAGAGAGACCAGTACTTGATATTTGGCGCTGAAGAGGGCATT  
 ATACCCTTAATCTCAATGAACTTCAATGAAACATCAATGGAACAGCTGTTCCCGCAGGTTACGTGGCT  
 GTATGTGATGAACAATTGCCTGCTGTCAGTCTCGGGCAAAGCCTCTCAGCTTTACTCCCAAACTTACCG  
 GGGCTTTTCGATTATGCAAGACAGATGCAGAAGCTTCCAGTAGCCATCCCAGCACACAAGCTCCCGACC  
 GAATACTGCCAGGAAATTTGCTGTATCAGCAAAGATTCTGAAACCAAAATGGTGCCAGAAGTGTGCGT  
 GGTGAGAAATCCTTACACGGGCCATAAGTACCTGTGCGGGGCGCTTACAGACCAGCATTGTTCTATTAGAA  
 TGGGTTGAGCCAATGCAGAAATTTATGTTAATTAAGCACATAGAGTTTCTATGCCGTGTCCACTCCGGA  
 TGTTTGTAGATGCTGGTGGTCCCTGAGCAGGAGTACCCTCTGGTCTGTGTTGGCGTCAGCAGAGGGCGAGA  
 CTTCAACCAAGTGGTTCGGTTTTGAGACGGTCAATCCCAATTTACCTCGTGTGGTTTACAGAGTCAGGT  
 GCCAATGCCCGCAGACAAGCGTCACTCATGTGACCCAGCTGGAGAGAGACCCATCCTTGTGTGCTTGG  
 ATTGTTGTATAAAAAATAGTCAATCTCCAAGGAAGTTGAAATCCAGCAGGAAATTTGCATCAGAATCAC  
 CTTTCGATTTCCAGATAGAGTCCATAGTTTGTCTACAAGACAGTGTGCTAGCGTTCTGAAACACGGGATG  
 CAAGGTAGAAGCTTTAGATCTAATGAGGTAACACAAGAAATTTAGATAACACAAGAAATCTTCAGACTCC  
 TTGGATCTGACAGGGTTGTGGTTTTGAAAGTCGGCCAACTGATAACCCAACAGCAAATAGCAATTTATA  
 CATCTTGGCGGGTCACGAAAACAGCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218414 representing NM\_001081357  
 Red=Cloning site Green=Tags(s)

MNPGFDLRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQQEIMMKDCKH  
 PNIVAYFGSYLRRDKLWICMEFCGGSLQDIYHVTGPLELQIAYVSRETQGLYYLHSGKGMHRDIKGA  
 NILLTDNGHVKLADFGVSAQITATIARKRSFIGTPYWMAPEVAVERKGGYNQLCDLWAVGITAIELAE  
 QPPMFDLHPMRALFLMTKSNFQPPKLDKDLKWSNSFHHFVKMALTKNPKKRPNAEKLLQHPFVTQPLTRS  
 LAIELLDKVNNDHSTYHDFDDDDPEPLVAVPHRIPSTSRNVREKTRSEINFGQVKFDPPLRKETEPHH  
 ELPDSDGFFDSSEEIYYTARSNLDLQLEYGQGHQSHCFLLGNGKSLLLKSVEEELHQRGHVAHLEDDGDD  
 DSKHSTMKAKVPPPLPPKPKSIFIPQDTHSAEDGNQGTIKRCPSSGSPAKPSHVPPRPPPPRLPPQKPAV  
 LGNGVNSFQLNGERDGSLYQQQSEQRGTNL SRKEKDVPKPISNGLPPTPKVHMGACFSKVFNGCPLKIH  
 CATSWINPDTRDQYLIFGAEEGIYTLNLNELHETSMEQLFPRRCTWL YVMNCLLSVSGKASQLYSHNLP  
 GLFDYARQMQLPVAIPAHLKLPDRILPRKFAVSAKIPETKWCQCCVVRNPYTGHKYLCGALQTSIVLLE  
 WVEPMQKFMLIKHFMPMPCLRMFEMLVVPEQEYPLVCVGVSRGRDFNQVVRFE TVNPNSTSSWFTESSG  
 ANAPQTSVTHVTQLERDITLVCLDCCIKIVNLQGRLLKSSRKLSELTFDFQIESIVCLQDSVLAFWKHGM  
 QGRSFRSNEVTQEISDNTRIFRLLGSDRVVLESRPTDNPTANSNLYILAGHENS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9009\\_e01.zip](https://cdn.origene.com/chromatograms/mm9009_e01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

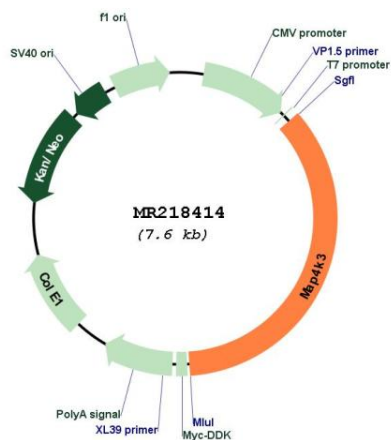


\* The last codon before the Stop codon of the ORF

ACCN: NM\_001081357

<b>ORF Size:</b>	2688 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_001081357.1</a> , <a href="#">NP_001074826.1</a>
<b>RefSeq Size:</b>	4231 bp
<b>RefSeq ORF:</b>	2691 bp
<b>Locus ID:</b>	225028
<b>Cytogenetics:</b>	17 E3
<b>MW:</b>	101.7 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR218414