

Product datasheet for **MG218414**

Map4k3 (NM_001081357) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k3 (NM_001081357) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map4k3
Synonyms:	4833416M01Rik; 4833416M07Rik; 9530052P13Rik; Glk; MAPKKK3; RAB8IPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218414 representing NM_001081357
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCCGGCTTCGATCTGTCCCGCCGGAACCCGAGGAGACTTCGAGCTGATCCAGCGCATCGGCA
 GCGGCACCTACGGCGACGTCTACAAGGCACGGAATGTCAACACTGGAGAATTAGCAGCAATTAAGTGAT
 AAAATTGGAACAGGAGAAGACTTTGCGGTTGTACAGCAAGAAATCATTATGATGAAAGACTGCAAACAC
 CCAAACATTGTTGCTTATTTGGAAGCTATCTCAGGCGAGATAAACTTTGGATTTGCATGGAATTCTGTG
 GAGGTGGCTCTTACAGGACATATATCATGTAAGTGGACCCCTTCAGAACTGCAGATTGCATATGTTAG
 CAGAGAACTCTACAGGATTGTATTACCTTCACAGTAAAGGAAAAATGCACCGAGATATAAAGGGCGCT
 AACATTCTCTAACGGATAATGGTCACGTGAACTAGCTGATTTTGGAGTTTCTGCACAGATAACAGCTA
 CAATTGCCAAACGGAAGTCCCTTCATTGGAACGCCATATTGGATGGCCCCAGAAGTCGCGGCTGTTGAGAG
 GAAAGGCGGGTACAATCAACTGTGTGACCTCTGGGCGGTGGGCATCACTGCCATCGAGCTGGCGGAGCTC
 CAGCCACCCATGTTTACCTTCACCCGATGAGGGCATTGTTTCTAATGACAAAAAGCAATTTCCAGCCTC
 CTAAACTAAAAGATAAGTTGAAGTGGTCAAAATAGTTTCCATCATTGTTGTAAGATGGCTCTTACAAAAA
 TCCAAAGAAAAGACCCAAATGCAGAAAAGCTGTTACAGCATCCCTTTGTCACACAGCCTCTGACACGGTCT
 TTGGCAATCGAGTTGCTGGACAAAGTGAATAATCCAGACCATTCCACATACCACGATTTTGATGATGATG
 ACCCAGAGCCTCTTGTGGCCGTACCACATAGAATTCCTTCAACGAGTAGAAAATGTGAGAGAAGAAAAAC
 ACGCTCAGAGATAAACTTTGGCCAGGTAATAATTTGATCCGCCCTTAAGGAAGGAGACAGACCACATCAC
 GAACTCCCGACAGTGTGGTTTTTTCGACAGTTCAGAAGAAATATACTACACTGCAAGATCTAATCTGG
 ATCTGCAACTAGAGTACGGACAAGGACACCAAGCCATTGCTTCTTAGGTGGCAACAAGGCTCTTCTGAA
 GTCTGTTGAAGGGAATTACATCAGCGAGGACATGTGGCACACTTAGAAGATGACGAAGGCGACGATGAC
 GACTCTAAGCATTCAACCATGAAAGCAAAAAGTCCCGCCTCCTCTGCCACCAAAGCCTAAATCCATCTTCA
 TACCACAGGATACACATTCTGCTGAGGACGGTAATCAAGGAACAATCAAGAGATGTCCTCATCAGGGAG
 CCCGGCAAAGCCATCCCACGTTCCACCTAGACCACCTCCGCCAGGTTACCGCCACAGAAGCCTGCTGTT
 TTAGGAAATGGAGTGAATCCTTCCAGCTAAATGGTGAGCGAGACGGATCATTATATCAGCAGCAGAGTG
 AGCAAAGAGGCACAAACCTTTCAAGAAAGGAGAAGAAGGACGTCGCCGAAACCAATTAGTAATGGTCTTCC
 CCCAACACCTAAAGTGCATATGGGAGCGTGTTTTTCAAAGTTTTTAATGGATGTCCCTTAAAAATCCAC
 TGTGCCACATCCTGGATAAACCAGACAGAGAGACCAGTACTTGATATTTGGCGCTGAAGAGGGCATT
 ATACCCTTAATCTCAATGAACTTCATGAAACATCAATGGAACAGCTGTTCCCCCGCAGGTGTACGTGGCT
 GTATGTGATGAACAATTGCCTGCTGTCAGTCTCGGGCAAAGCCTCTCAGCTTTACTCCCAAACTTACCG
 GGGCTTTTCGATTATGCAAGACAGATGCAGAAGCTTCCAGTAGCCATCCCAGCACACAAGCTCCCCGACC
 GAATACTGCCAGGAAATTTGCTGTATCAGCAAAGATTCTGAAACCAAAATGGTGCCAGAAGTGTGCGT
 GGTGAGAAATCCTTACACGGGCCATAAGTACCTGTGCGGGGCGCTTCAGACCAGCATTGTTCTATTAGAA
 TGGGTTGAGCCAATGCAGAAATTTATGTTAATTAAGCACATAGAGTTTCTATGCCGTGTCCACTCCGGA
 TGTTTGAGATGCTGGTGGTCCCTGAGCAGGAGTACCCTCTGGTCTGTGTTGGCGTCAGCAGAGGGCGAGA
 CTTCAACCAAGTGGTTCGGTTTTGAGACGGTCAATCCCAATTCACCTCGTCGTGGTTTTACAGAGTCAGGT
 GCCAATGCCCGCAGACAAGCGTCACTCATGTGACCCAGCTGGAGAGAGACACCATCCTTGTGTGCTTGG
 ATTGTTGTATAAAAAATAGTCAATCTCCAAGGAAGTTGAAATCCAGCAGGAAATTTGCATCAGAATCAC
 CTTTCGATTTCCAGATAGAGTCCATAGTTTGTCTACAAGACAGTGTGCTAGCGTTCTGAAACACGGGATG
 CAAGGTAGAAGCTTTAGATCTAATGAGGTAACACAAGAAATTTTCAGATAACACAAGAATCTTCAGACTCC
 TTGGATCTGACAGGGTGTGGTTTTGAAAGTCGGCCAACTGATAACCCAACAGCAAATAGCAATTTATA
 CATCTTGGCGGGTACGAAAACAGCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG218414 representing NM_001081357
 Red=Cloning site Green=Tags(s)

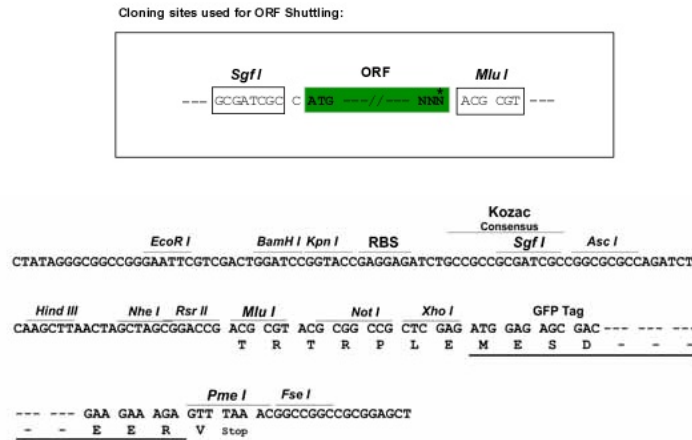
MNPGFDLSRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQQEIIIMMKDCKH
 PNIVAYFGSYLRRDKLWICMEFCGGSLQDIYHVTGPLSELQIAYVSRETLOGLYYLHSGKGMHRDIKGA
 NILLTDNGHVKLADFGVSAQITATIARKRSFIGTPYWMAPEVAVERKGGYNQLCDLWAVGITAIELAE
 QPPMFDLHPMRALFLMTKSNFQPPKLDKDLKWSNSFHHFVKMALTKNPKKRPNAEKLQHPFVTQPLTRS
 LAIELLDKVNNDHSTYHDFDDDDPEPLVAVPHRIPSTSRNVREKTRSEINFGQVKFDPPLRKETEPHH
 ELPDSDGFFDSSEEIYYTARSNLDLQLEYGQGHQSHCFLLGKNKSLLSVEEELHQRGHVAHLEDDGDDD
 DSKHSTMKAKVPPPLPPKPKSIFIPQDTHSAEDGNQGTIKRCPSSGSPAKPSHVPPRPPPPRLPPQKPAV
 LGNGVNSFQLNGERDGSLYQQQSEQRGTNLSRKEKDVPKPISNGLPPTPKVHMGACFSKVFNGCPLKIH
 CATSWINPDRDQYLIFGAEEGIYTLNLNELHETSMEQLFPRRCTWLVMNCLLSVSGKASQLYSHNLP
 GLFDYARQMQLPVAIPAHLKLPDRILPRKFAVSAKIPETKWCQKCCVVRNPYTGHKYLCGALQTSIVLLE
 WVEPMQKFMLIKHFMPMPCLRMFEMLVVPEQEYPLVCVGVSRGRDFNQVVRFEVNPNSTSSWFTESSG
 ANAPQTSVTHVTQLERDITLVCLDCCIKIVNLQGRLLKSSRKLSELTFDFQIESIVCLQDSVLAFWKHGM
 QGRSFRSNEVTQEISDNTRIFRLLGSDRVVLESRPTDNPTANSNLYILAGHENS

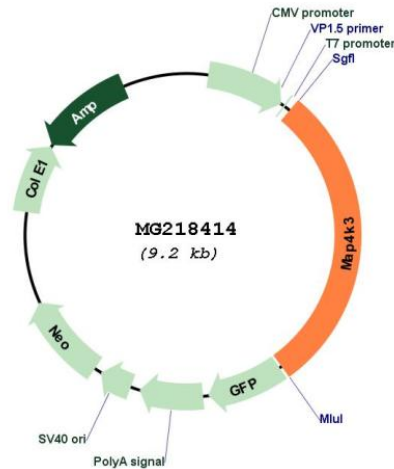
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001081357

ORF Size: 2688 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_001081357.1](#), [NP_001074826.1](#)

RefSeq Size: 4231 bp

RefSeq ORF: 2691 bp

Locus ID: 225028

Cytogenetics: 17 E3

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]