

Product datasheet for **RN210995**

Map3k11 (NM_001013150) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k11 (NM_001013150) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Map3k11
Synonyms:	Mlk-3; Mlk3; RHOE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210995 representing NM_001013150
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCTGAAGAACCTCTTCTCAAGAGCCCGCTGGGGTCATGGAACGGCAGTGGCAGTGGGGCCG
 GTGGGGTTCTGGTGGAGTCCGGCCAGAGGGTCCCGAAGGCAACAGCAGCTTATGCCAACCTGTCTG
 GACAGCCCTGTTGACTATGAGCCCAATGGGCAGGACGAAGTACCCCTGAGGAAGGGCGACCGTGTGGAG
 GTGCTGTCCAGGGATGCAGCCATCTCAGGAGATGAAGGCTGGTGGGCGGGCCAGGTGGGTGGCCAGGTGG
 GCATTTTTCCATCCAATATGTATCTCGGGGTGGAGGCCACCCCTGTGAGGTGGCCAGCTTCCAGGA
 GCTGCGACTGGAGGAGGTGATCGGCATCGGTGGCTTCGGCAAGGTCTACCGTGGCAGCTGGCGAGGGGAG
 CTGGTGGCTGTGAAAGCAGCTCGACAGGATCCTGATGAGGACATCAGTGTAAACAGCTGAGAGTGTTCGAC
 AGGAGGCCCGGCTTTTTGCCATGCTGGCACATCCCAACATCATTGCCCTCAAAGCTGTGTCCCTGGAGGA
 GCCAAACCTATGCCTGGTGGTATGAGATGTCAGCTGGTGGACCTCTAGCCGTGCCCTGGCTGGTCCGGCG
 GTGCCCCCATGTGCTGGTCAACTGGGCTGTGCAGATTGCCCGAGGGATGCACTACCTGCACTGTGAGG
 CTCTAGTGCCTGTGATACACCGAGACCTGAAGTCCAACAACATTCTGCTGCTGCAGCCATTGAAGGTGA
 CGACATGGAGCACAAGACCCTAAAGATTACTGACTTTGGCCTCGCCCAGAGTGGCACAAAACCACACAG
 ATGAGTGTGCGGGGACCTATGCGTGGATGGCTCCTGAGGTTATCAAGGCATCTACCTTCTCCAAGGGCA
 GCGATGTCTGGAGCTTTGGGGTGTCTGTGGGAACTGCTGACTGGGGAGGTACCTACCGTGGTATCGA
 CTGTCTTGGGTAGCCTATGGTGTGGCTGTAACAAGTTAACATTACCCATCCCATCCACTTGCCTGAG
 CCCTTCGCACAACCTATGGTACTGCTGGGCACAGGACCCACCCAGGCGCCGACTTCGCCTCCATCC
 TGCAGAGTTGGAAGCTCTAGAGGCTCAGTGTGAGGGAGATGCCACGGGACTCCTTCCATTCCATGCA
 GGAGGGCTGGAACCGCAGATCCAGGGCCTTTTTGATGAGCTGCGGGCCAAGGAAAAGGAACTACTGAGC
 CCGAGGAGGAACTGACGCGCAGCACGCGAGCAGCGTCCCAGGCAGAGCAGCTGCGACGCGCGGAGC
 ACCTGCTGGCGCAGTGGGAGCTGGAGGTGTTGAGCGCGAGCTGACACTGCTGCTACAGCAGGTGGACCG
 AGAACGGCCACACGTGCGCCGCCGACGCGGCACCTTCAAGCGGAGCAAGCTCCGAGCGAGGGATGGCGGA
 GAACGCATCAGCATGCCCTGGACTTCAAACATCGCATCACTGTGACGGCCTCTCCAGGACTTGACCGGA
 GGAGAAATGTGTTGAGGTTGGGGCTGGGACTCGCCACCTTCCTCGGTTCCGAGCTATCCAGTTGGA
 ACCTGCAGAAATCAGGCCAGACTTGGGGTCGCCAGTCCCCTAGACGTCTTGACGATTCAAGCAATGGAGAG
 AGGCGTGTGCTGGGCTGGGGTCCCAGTTCCCCAAGCCTGGGAGGGCCAGAATGGGAGGAGAAGGT
 CCCGCATGGATGAAGCCAGTGGTACCTAGATTAGATGACTCATCCCCATTAGGGTCTCCTTCTACTCC
 CCCAGCACTCAACGGTAATCCTCCAAGGCCTAGCCCTGAGCCAGAGGAGCCACGGCGGTCTGGGCCACA
 GAACGGGGCAATAGCTCTGGGACGCCTAAACTGATCCAACGTGCATTGCTCCGGGGGACCCTCTGCTGG
 CTTCCCTAGGCCCTTGGCCGAGACCTGCAGCCTCCAGGAGGCTGAGCCGTGAACGTGGAGAGTCCCCGAC
 AGCACCACCCCTGCACAGATGGCTTACCCTGTCCACCTGACCTGCCCTCCACCCCGCTCATCCACCTC
 TCACAAGCAACACCTGATGCCCCGTGGACCACTACCCCTGCACCCTTATTGCTGGACCTAGGTGTTTCT
 CTGGCCAGCCATCAGCCAAGAGCCCTCGCGGGGAAGAGACAGTGAAGAAGTGTTCACCTCCACCAGG
 AATATCACGCTCTGCTCCTGGCACCCCTGGAACCCCTCGCTCACCACTTTGGGCCTCATCAGCCGACCT
 CGGCCATCACCCTCCGTAAACCGTATTGACCCATGGAGCTTCGTGTCAGCTGGGCCACGGCTTACCCCT
 TGCCCTCTCCACAGCCTGCACCCGACGGGACCATGGACCTTATCCAGACTCAGATCCCTTCTGGGA
 CTCCCCACCTGCCAACCCCTTCCGGGGAGGCTCCAGGACTGCAGGACGCAGACCAAGATGTGGGTGCT
 CAGGCGCCATGGGCACCAGAAGCAGGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013150
Insert Size: 2553 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_001013150.1</u> , <u>NP_001013168.1</u>
RefSeq Size:	3536 bp
RefSeq ORF:	2553 bp
Locus ID:	309168
UniProt ID:	<u>Q66HA1</u>
Cytogenetics:	1q43
Gene Summary:	Activates the JUN N-terminal pathway. Required for serum-stimulated cell proliferation and for mitogen and cytokine activation of MAPK14 (p38), MAPK3 (ERK) and MAPK8 (JNK1) through phosphorylation and activation of MAP2K4/MKK4 and MAP2K7/MKK7. Plays a role in mitogen-stimulated phosphorylation and activation of BRAF, but does not phosphorylate BRAF directly. Influences microtubule organization during the cell cycle (By similarity). [UniProtKB/Swiss-Prot Function]