

Product datasheet for **MR210947**

Map3k11 (NM_022012) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k11 (NM_022012) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map3k11
Synonyms:	2610017K16Rik; Mlk3; PTK1; SPRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210947 representing NM_022012
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCTGAAGAACCTCTTCTCAAGAGCCCGCTGGGGTCATGGAACGGCAGTGGCAGTGGGGCCG
 GCGGGGTACCGTGGAGTCCGGCCGGAGGGTCTCCGAAGGCAACAGCAGCTTATGCCAATCCTGTCTG
 GACAGCCCTGTTGACTATGAGCCCAATGGGCAGGACGAAGTACCCCTGAGGAAGGGCGACCGTGTGGAG
 GTGCTGTCCAGGGATGCAGCCATCTCAGGAGATGAGGGCTGGTGGGCGGGCCAGGTGGTGGCCAGGTGG
 GCATTTTTCCATCCAATATGTATCTCGGGGTGGAGGCCACCCCTGTGAGGTGGCCAGCTTCCAGGA
 GCTGCGACTGGAGGAGTGCATCGGCATCGGTGGCTTCGGCAAGGTCTACCGTGGCAGCTGGCAGGGGAG
 CTGGTGGCTGTGAAGGCAGCCGACAGGACCTGATGAGGACATCAGTGTAAACAGCTGAGAGTGTTCGAC
 AGGAGGCCCGGCTTTTTGCCATGCTGGCCATCCCAACATCATTGCCCTCAAAGCTGTGTGCTGGAGGA
 GCCAAACCTATGCCTGGTGGTATGAGTATGCAGCTGGTGGGCTCTTAGCCGGGCCCTGGTGGTCCGCGT
 GTGCCCCCATGTGCTGGTCAACTGGGCTGTGCAGATTGCCCGAGGAATGCACTACCTGCACTGTGAGG
 CTCTGGTGCCTGTGATACACCGAGACCTGAAGTCCAACAACATTCTGTTGCTGCAGCCATCGAGGGTGA
 CGCATGGAACACAAGACCCTAAAGATTACTGACTTCGGCCTCGCCCGAGAGTGGCACAAAACCACCCAG
 ATGAGTGTGCGGGCACCTACGCTTGGATGGTCCCGAGGTTATCAAGGCCTCCACCTTCTCCAAGGGCA
 GCGACGCTGGAGCTTTGGAGTGTCTGTGGGAACTGCTGACTGGGGAGGTGCCCTACCGTGGCATCGA
 CTGTCTTGCCGTAGCCTATGGTGTGGCTGTAACAAGTTAACGTTACCCATCCCATCTACCTGCCCTGAG
 CCCTTTGCACAATCATGGTACTGCTGGGCACAGGACCCCAACCGCAGGCCGACTTCGCCTCCATCC
 TGCACAGTTGGAAGCTCTAGAAGCGCAGGTGCTGCGGGAGATGCCACGGGACTCCTTCCATTCCATGCA
 GGAAGGCTGGAACGCGAGATCCAGGGCCTGTTTGATGAGCTGCGGGCCAAGGAAAAGAACTACTGAGC
 CGGGAGGAGAACTGACGCGCGCTGCACGTGAGCAGCGGTCCCAGGCGGAGCAGCTGCGACGCGCGAGC
 ACCTGCTGGCGCAGTGGGAGCTGGAGGTGTTGAGCGCGAGCTGACGCTGCTACTGCAGCAGGTGGACCG
 AGAACGGCCGCACGTGCGCCGCCCGGGGCACCTTCAAGCGGAGCAAACCTCCGAGCAAGGGACGGCGGA
 GAACGCATCAGCATGCCCTGGATTTCAAACACCGCATCACAGTGAAGCCTCTCCTGGCCTGGATCGGA
 GGAGAAACGTGTTGAGGTTGGGGCTGGGGACTCGCCACCTTCCCTAGATTCCGAGCCATCCAGTTGGA
 ACCTACAGAAATCAGGCCAGACTTGGGGTCGCCAGTCCCCAGACGCTTTGAAGATTCAAGCAATGGAGAG
 AGGCGTGTGCTGGCCCTGGGGTCCCAGCTCCCCAAGCCTGGGGAGGCCAGAACGGGAGGAGACGGT
 CCCGCATGGATGAAGCCAGTGGTACCTAGATTACAGCAGCTCGTCCCCATTAGGGTCCCCTAGTACTCC
 CCCGGCACTCAACGGTAATCCTCCAAGGCCTAGCCCCGAGCCAGAGGAGCCACGGAGGGCCGGGCCACG
 GAGCGAGGCAATAGCTCTGGGACGCCTAAACTGATCCAACGTGCATTGCTACGGGGGACCGCTCTGCTGG
 CTTCCCTAGGCCCTGGCCGAGATCTGCAACCTCCAGGAGGCTGAGCCGTGAACGCGGGGAGTCCCCGAC
 AGCACCACCCCTGCACAGATGCCCTCACCTGCCACCTGAGCTGCCCTCCACCCCGCTCATCCGCCTC
 TCACAAACAACACCTGATGCCATAGTTCAACCACTCCTGGACCTTATTGCTAGACCTAGGTGTTCCCT
 CTGGCCAGCCATCAGCCAAGAGCCCTCGACGGGAAGAGACAGTGGGAGAACCGTCTCACCCCAACAGG
 AATATCACGCTCTGCTCCTGGCACACCTGGAACCCCTCGCTCACACCGTGGGCTAATCAGCCGACCT
 CGGCCCTCACCACTCCGTAGCCGTATTGACCCATGGAGCTTCGTGTGAGCTGGGCCACGGCTTACCCCC
 TGCCCTCTCCACAGCCTGCACCCGACGGGACCGTGGACCTTATCCAGACTCAGATCCCTTCTGGGA
 CTCCCCACCTGCCAACCCCTTCCGGGGAGGCTCCAGGACTGCAGGACGCAGACCAAGACATGGGTGCC
 CAGGCCCATGGGACCAAGAAGCAGGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210947 representing NM_022012
 Red=Cloning site Green=Tags(s)

MEPLKNLFLKSP LGSWNGSGSGGGGGTGGVRPEGSPKATAAYANPVWTALFDYEPNGQDELALRKGDRVE
 VLSRDAAISGDEGWAGQVGGQVGIFFSNYVSRGGPPPCEVASFQELRLEEVIIGGFVKVYRGSWRGE
 LVAVKAARQDPDEDISVTAESVRQEARLFAMLAHPNIIALKAVCLEEPNLCLVMEYAAGGPLSRALAGRR
 VPPHVLVNWAVQIARGMHYHLHCEALVPVIHRDLKSNNILLQPIEGDDMEHKTLKITDFGLAREWHKTTQ
 MSAAGTYAWMAPEVIKASTFSKGSVDVWSFGVLLWELLTGEVPHYRGIDCLAVAYGVAVNKLTLPPISTCPE
 PFAQLMADCWAQDPHRRPDFASILQQLEALEAQVLRMPRDSFHSMQEGWKREIQGLFDELRAKEKELLS
 REEELTRAAREQRSQAEQLRRREHLLAQWELEVFERELTLLQVDRERPHVRRRRGTFRKSKLRARDGG
 ERISMP LDFKHRTVQASPLDRRRNVFVGGADSPFPFRFRAIQLEPTESGQTWGRQSPRRELDSSNGE
 RRACWAWGPPSPKGEAQNGRRSRMDEATWYLDSDSSPLGSPSTPPALNGNPPRSPPEPEPRRAGPT
 ERGNSSGTPKLIQRALLRGTALLASLGLGRDLQPPGGLSRERGESPTAPPPAQMPSPCPPELPSTPLIRL
 SQTTPDAHSSPTGPLLLDLGVP SGQPSAKSPRREETRGRVSPPPGISRSAPGTPGTPRSPLGLISRP
 RPSPLRSRIDPWSFVSAGPRPSPLPSQPAPRRAPWTLFPDSDPFWDSPANPFRGGSQDCRTQTKDMGA
 QAPWAPEAGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

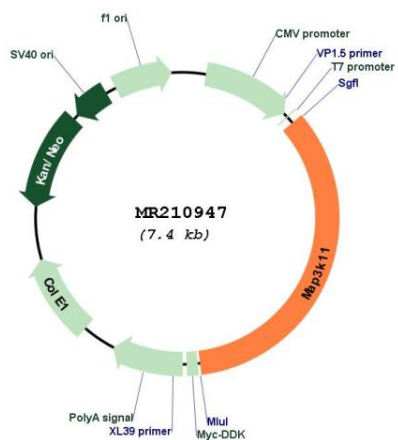
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_022012
ORF Size:	2550 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:	<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:	NM_022012.3 , NP_071295.2
RefSeq Size:	3919 bp
RefSeq ORF:	2553 bp
Locus ID:	26403
UniProt ID:	Q80XI6
Cytogenetics:	19 4.34 cM
MW:	93.7 kDa
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]

Product images:



Circular map for MR210947