

## Product datasheet for **MR222665**

### Map3k14 (NM\_016896) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k14 (NM_016896) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map3k14
Synonyms:	aly; Nik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222665 representing NM\_016896  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGTGATGGAAGTGGCCTGCCCGGCACTCTGGTTCAGCAGTCGGGCAGCAGAAGGAGCTTGCCA  
 AAGCCAAGGAGAAGACACAGTCACTGGGAAGAAGCAGAGCTGCATCTTCAAGCTTGAGGCCGTGGAGAA  
 GAGCCCGTGTTCTGTGGGAAGTGGGAGATCCTAAACGACGTGATCACAAAGGCACAGCCAAGGACGGC  
 TCTGAGGGAGGACCACCGCCATCTCCATCATCGCCAGGCTGAATGTGAGAATAGCCAAGAGTTCAGCC  
 CCACCTTCTCAGAGCGCATTTTTCATCGCGGGTTCACAGCAGTACAGCCAGTCTGAGAGTCTCGATCAAAT  
 CCCCACAATGTGGCCATGCAACTGAAGGCAAAATGGCCCGTGTGTGCCGGAGGGGAAAACGTACAGGC  
 AAAGCCCAGAAAAACGTAGGAAGAAGAGGTGAAAGTCACTGGCCAGGCAGGAGTGGCCTTAGCCAAGC  
 CCCTGCCAGAACCCTGAGCAAGAGAGCTGTACCATCCAGTACAGGAAGATGAGTCTCCACTAGGCAA  
 CCTCTATGCCAGAAATGTCTCCAGTTCACCAAGCCTCTGGGGGACCAGGCCTTGGCCACCTGTGCTTT  
 AAGAAACAAGATGAAGGCCTGCGACCGGTACTGCCTCGACCAGAACTCCACAAACTGATCAGCCCTTGC  
 AATGTCTAAACCAGTGTGAAACTCCACCACCCAGGCCACAGGCCCCCGGCCACCCGACTCACCC  
 CTTCCCTACAGCGGAATGCCCATCCTTTCCATTCTACCCCTGGAGCCCTGGAACCCTATATGCTG  
 GACTCTGCCGTCTGGACAACTAGCCGGTGTGAGCGCCAGCGGCTCTGCCTGGCCACCCGATCTAA  
 GCCAACTGGCCATGGAGACAGTCAAGAGCCGCTGCCTGGCCACACCTGGAGTCCAGCTGCCCGTCTCG  
 GGGTGCCTAGAAAAGTTCCCGTGGAGGAATACCTGGTGCATGCGCTCCAAGGAAGTGTGAGCTCAGGC  
 CAGGCCACAGCCTGGCCAGCCTGGCTAAGACATGGTCTCGGGAAGCCCAAGCTGCAGAGGCTCGGCC  
 CCGAAACTGAGGACAACGAGGGGCTCTGCTTACTGAGAACTCAAGCCAGTGGATTATGAGTATCGAGA  
 AGAGTCCACTGGATGACACACCAGCCTCGGGTGGGCGAGAGGCTCCTTCGGCGAGGTCCACAGAATGAAG  
 GACAAGCAGACAGGCTTCCAGTGTGCTGTCAAAAAGGTACGACTCGAGGTGTTTCGGGTAGAGAACTAG  
 TGGCCTGTGCTGGTCTGAGCTCGCCAGAATCGTCCCTCTCTATGGAGCTGTGAGAGAAGGCCCGTGGGT  
 GAACATCTTATGGAAGTGTAGAAAGTGGCTCGCTGGTTCAGCTCATAAAGCAAATGGGCTGTCTGCCA  
 GAAGACCGAGCCCTTACTACCTGGCCAGGCCCTGGAGGGCTGGAGTACCTCCACACACGAGGATTC  
 TGCATGGCGATGTCAAAGCTGACAACGTCTCTGTCCAGTGTGAAGCCGAGCGGCCCTCTGCGACTT  
 TGGCCACGCTTGTGCCTGCAACCTGACGGCTAGGGAATCCTTGTCTCACAGGGGACTACATTCCTGGC  
 ACGGAGACCCACATGGCACCAGAAGTGGTGTGGGAAAGCCCTGCGATGCCAAGGTGGACATCTGGAGCA  
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 TCTCAAGATTGCCAGCGAGCCTCCACCGATCAGGGAGATCCCACCTTCTGCGCACCCCTCACAGCCAG  
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 ACCCAAGACCAAGCCACCTGCCACCAGACCCTACCTACTCCGCCGAGAGAGAACCACCAAGCAAGGCC  
 AACACAGACGGGGCTCCTGAGCCTCAGCCTCCTTACCGCCAGAACCACCAAGCAAGCCAGGCCAG  
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 CACCCTGAGTTCTGGCGTCACTCTTGAACAGCCAAGCTGAGGCAAGAACCTGCAGCTGCAGCACGGCG  
 CTGGCCCGGGGGCGCCTACTGACATCCCGAGCTACTTCAACGGGGTCAAGGTCCAGATCCAGTCTCTCA  
 ATGGCGAACACCTGCATATCCGGGAATTCACCGCGTCAAGGTGGGAGACATTGCCACCGGCATCAGCAG  
 CCAGATCCAGCCACAGCTTTCAGCCTGGTGACCAAAGATGGACAGCCTGTTTGTATGACATGGAGGTG  
 CCAGACTCGGCATCGACCTGCAGTGCACCCTGGCCCTGATGGCAGCTTGTCTGGACCTGGAGGGTCA  
 AGCATGGTCAGCTGGAGAACCGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222665 representing NM\_016896  
Red=Cloning site Green=Tags(s)

MAVMEVACPGTPGSAVGGQKELAKAKEKTQSLGKKQSCIFKLEAVEKSPVFCGKWEILNDVITKGTAKDG  
 SEGPPAISIIAQACENSQEFSPTFSERIFIAGSQQYSQSESLDQIPNNVAHATEGKMARVCRRGKRHG  
 KARKRRKRKRSLSAQAGVALAKPLPRTPEQESCTIPVQEDESPLGNLYARNVSQFTKPLGGPGLGHLCF  
 KKQDEGLRPVLPPELHKLI SPLQCLNHVWKLHHPQATGPRPHPTHPPYSGMPHPFFYPLEPWKPYML  
 DSAVLDKLAGVSGQRPLPGPHLSQLAHGDSQKPLPGPHLESSCPSRGALEKVPVEEYLVHALQGSVSSG  
 QAHSASLAKTWSGSAKLQRLGPETEDNEGVLLTEKLPVDYEEYREEVHWMTHQPRVGRGSFGEVHRMK  
 DKQTGFQCAVKKVRLVFRVEELVACAGLSSPRIVPLYGAVREGPWVNI FMELEGGSLGQLIKQMGLCP  
 EDRALYYLQALEGLEYLHTRRILHGDVKADNVLLSSDGSRAALCDFGHALCLQPDGLGKSLLTGDYIPG  
 TETHMAPEVVMGKPCDAKVDIWSCCMMLHMLNGCHPWYFRGPLCLKIASEPPPIREIPPSCAPLTAQ  
 AIQEGLRKEPVHRASAMELRRKVGKALQEVGGLKSPWKGEYKEPRPPQDQATCHQTLTPPRENPPAKA  
 NTDGAPEPQPPLPEPEPEPSKAPALNLSKEESGTWEPLPLSSLDPATAKGPSFDRRATLPELELQLEI  
 ELFLNSLSQPFSLLEEQEILSCLSIDSLSDDESEKNPSKASQSSRDTLSSGVHSWNSQAEARTCSCSTA  
 LARGRPTDIPSYFNGVKVQIQSLNGEHLHIREFHRVKVGDIA TGISSQIPATAFSLVTKDGPVCYDMEV  
 PDSGIDLQCTLAPDGSFAWTWRVKHGQLENRP

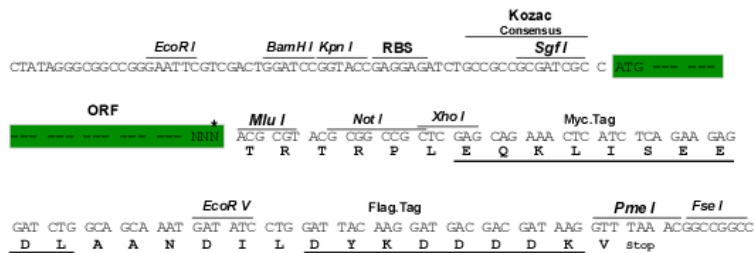
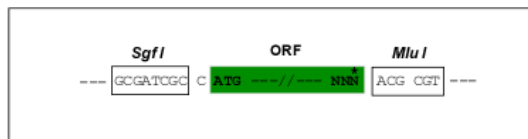
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1382\\_c02.zip](https://cdn.origene.com/chromatograms/ja1382_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



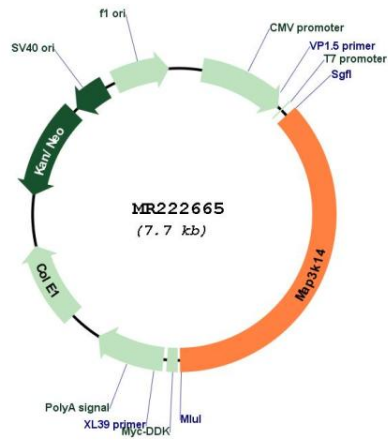
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016896

**ORF Size:** 2826 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_016896.3</a> , <a href="#">NP_058592.1</a>
<b>RefSeq Size:</b>	4173 bp
<b>RefSeq ORF:</b>	2829 bp
<b>Locus ID:</b>	53859
<b>UniProt ID:</b>	<a href="#">Q9WUL6</a>
<b>Cytogenetics:</b>	11 66.8 cM
<b>MW:</b>	103.5 kDa
<b>Gene Summary:</b>	Lymphotoxin beta-activated kinase which seems to be exclusively involved in the activation of NF-kappa-B and its transcriptional activity. Promotes proteolytic processing of NFKB2/P100, which leads to activation of NF-kappa-B via the non-canonical pathway. Could act in a receptor-selective manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222665