

Product datasheet for **MG222665**

Map3k14 (NM_016896) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k14 (NM_016896) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map3k14
Synonyms:	aly; Nik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222665 representing NM_016896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGATGGAAGTGGCCTGCCCGGCACTCTGGTTCAGCAGTCCGGCAGCAGAAGGAGCTTGCCA
 AAGCCAAGGAGAAGACACAGTCACTGGGAAGAAGCAGAGCTGCATCTTCAAGCTTGAGGCCGTGGAGAA
 GAGCCCGTGTCTGTGGAAAGTGGGAGATCCTAAACGACGTGATCACAAAGGCACAGCCAAGGACGGC
 TCTGAGGGAGGACCACCGCCATCTCCATCATCGCCAGGCTGAATGTGAGAATAGCCAAGATTAGCC
 CCACCTTCTCAGAGCGCATTTTCATCGCGGGTTCACAGCAGTACAGCCAGTCTGAGAGTCTCGATCAAAT
 CCCCACAATGTGGCCATGCAACTGAAGGCAAAATGGCCCGTGTGTGCCGGAGGGGAAAACGTACGGC
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 CCCTGCCAGAACCCTGAGCAAGAGAGCTGTACCATCCAGTACAGGAAGATGAGTCTCCACTAGGCAA
 CCTCTATGCCAGAAATGTCTCCAGTTCACCAAGCCTCTGGGGGACCAGGCCTTGGCCACCTGTGCTTT
 AAGAAACAAGATGAAGGCCTGCGACCGGTACTGCCTCGACCAGAACTCCACAAACTGATCAGCCCTTGC
 AATGTCTAAACCAGTGTGAAACTCCACCACCCAGGCCACAGGCCCCCGGCCACCCGACTCACCC
 CTTCCCTACAGCGGAATGCCCATCCTTTCCATTCTACCCCTGGAGCCCTGGAAACCCTATATGCTG
 GACTCTGCCGTCTGGACAACTAGCCGGTGTGAGCGCCAGCGGCTCTGCCTGGCCACCCGATCTAA
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 CAGGCCACAGCCTGGCCAGCCTGGCTAAGACATGGTCTCGGAAGCCCAAGCTGCAGAGGCTCGGCC
 CCGAAACTGAGGACAACGAGGGGCTCTGCTTACTGAGAAACTCAAGCCAGTGGATTATGAGTATCGAGA
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 GACAAGCAGACAGGCTTCCAGTGTGCTGTCAAAAAGGTACGACTCGAGGTGTTTCGGGTAGAGAACTAG
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 GAAGACCGAGCCCTTACTACCTGGCCAGGCCCTGGAGGGGCTGGAGTACCTCCACACACGAGGATTC
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 GCTGCTGCATGATGCTCCACATGCTCAACGGCTGCCACCCTGGACTCAGTACTTCGAGGCCCGCTTTG
 TCTCAAGATTGCCAGCGAGCCTCCACCGATCAGGGAGATCCCACCTTCTGCGCACCCCTCACAGCCAG
 GCCATCCAAGAGGGGCTGAGGAAAGAGCCCGTCCACCGAGCATCTGCCATGGAGCTTCGGAGGAAAGTGG
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 GAACTGTTTCTCAACAGCCTGTCCAGCCGTTCTCTGAGGAAACAGGAACAAATCCTCTCCTGCCTCA
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 CCAGACTCGGCATCGACCTGCAGTGCACCCTGGCCCTGATGGCAGCTTGTCTGGACCTGGAGGGTCA
 AGCATGGTCAGCTGGAGAACCGACCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG222665 representing NM_016896
 Red=Cloning site Green=Tags(s)

MAVMEVACPGTPGSAVGGQKELAKAKEKTQSLGKKQSCIFKLEAVEKSPVFCGKWEILNDVITKGTAKDG
 SEGPPAISIIAQAEENSQEFSPTFSERIFIAGSQQYSQSESLDQIPNNVAHATEGKMARVCRRGKRHG
 KARKRRRKRKSKSLAQAGVALAKPLPRTPEQESCTIPVQEDESPLGNLYARNVSQFTKPLGGPGLGHLGCF
 KKQDEGLRPVLPPELHKLISPLQCLNHVWKLHHPQATGPRPHPTHFPFYSGMPPHPPFYPLEPWKPYML
 DSAVLDKLAGVSGQRPLPGPPHLSQLAHGDSQKPLPGPHLESSCPSRGALEKVPVVEEYLVHALQGSVSSG
 QAHSASLAKTWSGSAKLQRLGPETEDNEGVLLTEKLPVDYEEYREEVHWMTHQPRVGRGFSFGEVHRMK
 DKQTGFQCAVKKVRLVFRVEELVACAGLSSPRIVPLYGAVREGPWVNIFFMELLEGGSLGQLIKQMGCLP
 EDRALYYLQALEGLEYLHTRRILHGDVKADNVLLSSDGSRAALCDFGHALCLQPDGLGKSLLTGDYIPG
 TETHMAPEVVMGKPCDAKVDIWSCCMMLHMLNGCHPWTQYFRGPLCLKIASEPPPPIREIPPSCAPLTAQ
 AIQEGLRKEPVHRASAMELRRKVGKALQEVGGLKSPWKGEYKEPRPPQDQATCHQTLTPPRENPPAKA
 NTDGAPEPQPPLPEPEPEPSKAPALNLSKEESGTWEPLPLSSLDPATAKGPSFPDRRATLPELELQGLEI
 ELFLNSLSQPFSLLEEQEILSCLSIDSLSLDDSEKNPSKASQSSRDTLSSGVHSWNSQAEARTCSCSTA
 LARGRPTDIPSYFNGVKVQIQSLNGEHLHIREFHRVKVGDIAITGISSQIPATAFSLVTKDGQPVICYDMEV
 PDSGIDLQCTLAPDGSFAWTWRVKHGQLENRP

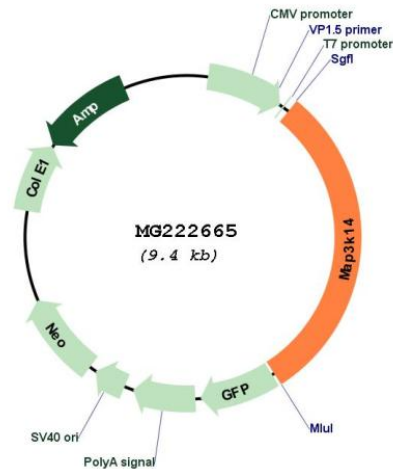
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_016896

ORF Size: 2826 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_016896.3](#), [NP_058592.1](#)

RefSeq Size: 4173 bp

RefSeq ORF: 2829 bp

Locus ID: 53859

UniProt ID: [Q9WUL6](#)

Cytogenetics: 11 66.8 cM

Gene Summary:

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]