

Product datasheet for **RG207616**

NFkB Inducing Kinase NIK (MAP3K14) (NM_003954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFkB Inducing Kinase NIK (MAP3K14) (NM_003954) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFkB Inducing Kinase NIK
Synonyms:	FTDCR1B; HS; HSNIK; NIK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG207616 representing NM_003954
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGTGATGGAAATGGCCTGCCAGGTGCCCTGGCTCAGCAGTGGGGCAGCAGAAGGAACTCCCCA
AAGCCAAGGAGAAGACGCCGCTGGGGAAGAAACAGAGCTCCGTCTACAAGCTTGAGGCCGTGGAGAA
GAGCCCTGTGTTCTGCGGAAAGTGGGAGATCCTGAATGACGTGATTACCAAGGGCACAGCCAAGGAAGGC
TCCGAGGCAGGGCCAGCTGCCATCTCTATCATCGCCAGGCTGAGTGTGAGAATAGCCAAGAGTTCAGCC
CCACCTTTTTCAGAACGCATTTTTCATCGCTGGGTCCAAACAGTACAGCCAGTCCGAGAGTCTTGATCAGAT
CCCCAACAAATGTGGCCATGCTACAGAGGGCAAATGGCCCGTGTGTGTTGGAAGGAAAGCGTCGCAGC
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CCCTCCCAGGACCCCTGAGCAGGAGAGCTGCACCATCCAGTGCAGGAGGATGAGTCTCCACTCGGCGC
CCCATATGTTAGAAACACCCCGAGTTCACCAAGCCTCTGAAGGAACCAGGCCTTGGGCAACTCTGTTTT
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AATGTCTGAACCAGTGTGGAACTGCACCACCCCCAGGACGGAGGCCCTTGCCTGCCCTGCCACGCACCC
CTTCCCCTATAGCAGACTGCCTCATCCCTTCCCATTCCACCCTCTCCAGCCCTGGAAACCTCACCTCTG
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TGGCCTGTGTAGACAGTCCAAGCCCTGCCTGGCCACACCTGGAGCCAGCTGCCTGTCTCGTGGTGC
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TGCTGTGTCTTCAACCTGATGGCCTGGGAAAGTCTTGCTCACAGGGGACTACATCCCTGGCACAGAG
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GATTGCCAGCGAGCCTCCGCCTGTGAGGGAGATCCCACCTCCTGCGCCCTCTCACAGCCAGGCCATC
CAAGAGGGGCTGAGGAAAGAGCCATCCACCGCGTGTCTGCAGCGGAGCTGGGAGGGAAGGTGAACCGGG
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TACGACATGGAGGTGCCAGACTCGGCATCGACCTGCAGTGCACACTGGCCCTGATGGCAGCTTCGCT
GGAGCTGGAGGGTCAAGCATGGCCAGCTGGAGAACAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207616 representing NM_003954
 Red=Cloning site Green=Tags(s)

MAVMEMACPGAPGSAVGQQKELPKAKEKTPPLGKKQSSVYKLEAVEKSPVFCGKWEILNDVITKGTAKEG
 SEAGPAAISIIAQACENSQEFSPTFSERIFIAGSKQYSQSESLDQIPNNVAHATEGKMARVCWKGKRRS
 KARKKRRKKSSKSLAHAGVALAKPLPRTPEQESCTIPVQEDESPLGAPVVRNTPQFTKPLKEPGLGQLCF
 KQLGEGLRPALPRSELHKLISPLQCLNHVWKLHHPQDGGPLPLPTHFPYSRLPHPPFPFHPLQPWKPHPL
 ESFLGKLCVDSQKPLPDPHLSKLACVDSPKPLPGPHLEPSCLSRGAHEKFSVEEYLVHALQGSVSSGQA
 HSLTSLAKTWAARGSRSPKTEDNEGVLLTEKLPVDYERYEEVHWATHQLRLGRGSFGEVHRMEDK
 QTGFQCAVKKVRLVFRAEELMACAGLTSRIVPLYGAVREGPWVNI FMELLEGGSLGQLVKEQGCLPED
 RALYYLGQALEGLEYLHSRILHGDKADNVLLSSDGSAAALCDFGHAVCLQPDGLGKSLLTGDYIPGTE
 THMAPEVVLGRSCDAKVDVWSSCCMLHMLNGCHPWTQFFRGPCLCKIASEPPPVREIPPSCAPLTAQAI
 QEGLRKEPIHRVSAELGGKVNRLQQVGLKSPWRGEYKEPRHPPPNQANYHTLHAQPRELSPRAPGP
 RPAEETTGRAPKLQPLPPEPEPNKSPPLTLSKEESGMWEPLPLSSLEPAPARNPSSPERKATVPEQEL
 QQLEIELFLNSLSQPFSLLEEQEQLSCLSIDSLSDDDSEKNPSKASQSSRDTLSSGVHSSWSSQAEARSS
 SWNMVLARGRPTDTPSYFNGVKVQIQSLNGEHLHIREFHRYKVGDIATGISSQIPAAAFSLVTKDGQVPR
 YDMEVPDSSGIDLQCTLAPDGSFAWSRWKHKQLENRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

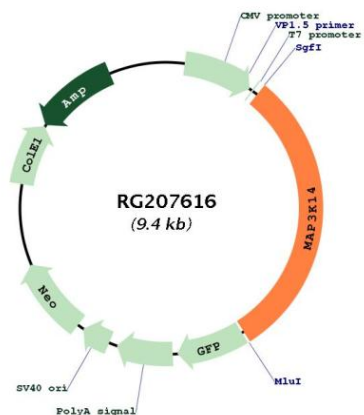


ACCN: NM_003954

ORF Size: 2841 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_003954.1 , NP_003945.1
RefSeq Size:	4596 bp
RefSeq ORF:	2844 bp
Locus ID:	9020
UniProt ID:	Q99558
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Apoptosis, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, T cell receptor signaling pathway
Gene Summary:	This gene encodes mitogen-activated protein kinase kinase kinase 14, which is a serine/threonine protein-kinase. This kinase binds to TRAF2 and stimulates NF-kappaB activity. It shares sequence similarity with several other MAPKK kinases. It participates in an NF-kappaB-inducing signalling cascade common to receptors of the tumour-necrosis/nerve-growth factor (TNF/NGF) family and to the interleukin-1 type-I receptor. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207616