

Product datasheet for **RG239742**

NFATC4 (NM_001288802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_001288802) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFATC4
Synonyms:	NF-AT3; NF-ATC4; NFAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239742 representing NM_001288802.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGCCTCGCTTCAATCTCCTCCATCTTCCAGGTCCAACCTGCTTTTGTCTTGTGGCTCAGAAGAACTG
GACTCAGAGGATGCCCGCCATGCTGCCGTCTGGCCTTGGGAGAGCCCCCTCCCTATGGCGCTGCACCT
ATCGGTATTCGCCGACCTCCACCCCTCGGCCTGGCATGCATTGCCACCGCCGCGACCAGCCCCCTCA
CCTGGCACCTGGGAGAGCCAGCCCGCCAGGTGGTGGGCTGGGAGGACCAGGAGGGGTGCTGGGGGT
GCTGGGGTGGCCGTGTTCTCGAGTGTCCAGCATCCGCATCACCTCCATCTCTCCACGCCGGAGCCG
CCAGCAGCGCTGGAGGACAACCTGATGCCTGGGGGACGGCTCTCTAGAGATTACCCCCACCAGAA
GGCTTTGGGGGTACAGAGAAGCAGGGGGCAGGGTGGGGGGCCTTCTCAGCCAAAGCCCTGGCAGC
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GAGGTGGAGTCTGAGCTAAATGAGGCGGCCTCCCGCTTTGGCTGGGCTCCCCGCTGCCCTGCCCCGG
GCCTCCCCTCGGCATGGACCCCGAAGATCCCTGGAGCCTGTATGGTCCAAGCCCCGGAGCCGAGGG
CCAGAGGATAGCTGGCTACTCCTCAGTGTCTCTGGGCCACCCAGCCTCCCCGGGCTGCCTCTCCA
TGTGGCAAGCGCGCTATTCCAGCTCGGAACCCCATCTTCAGCCTCCCCAGCTCTGTCCCGCCGTGGC
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CCTGGTCCCTTTGACTATGTGGGGGCCACCAGCTGAGAGCATCCCTCAGAAGACACGGCGGACTTCC
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GCAGAGGAGTCTGTGGCTCCTCCAGGAGTTCCCGAAGGAGGTGGTGGCATGGACTACCTGGCAGTG
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CCCCACTGGACTGGCCTCTGCCAGCCAAATGAGCAGCTGGAGCTGAGGATCGAGCTACAGCCTAGA
GCCACACCGGGCCACTATGAGACAGAAGGCAGCCGTGGAGCTGTCAAAGCTGCCCTGGCGGTAC
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GAAAGGAACCTGCGGCCTCATGCCTTCTATCAGGTGCACCGTATCACAGGCAAGTGGTGGCCACGGCC
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GCCAACATTGACTGCGCGGAATCTGAAGCTTCGGAATTCAGACATTGAGCTTCGGAAGGGTGAGACG
GACATCGGGCGAAAAACACACGTGTACGGCTGGTGTCCGGGTACACGTGCCCCAGGGCGGGGAAG
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TTCTGCCAGACTCCAAGGTGGTGTTCATTGAGAGGGGTCTGTGGGAAGCTGCAATGGGAGGAGGAG
GCCACAGTGAACCGACTGCAGAGCAACGAGGTGACGCTGACCCTGACTGTCCCCGAGTACAGCAACAAG
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ACAGGTTGTGCCAACCACCTGCAGTTTCCCTTCCCGCCCTTCCCTAGTGACCCGTATGGAGGG
CGGGGCTCCTCTTCTCCCTGGGCTGCCATTCTCTCGCCAGCCCTTTCGGCCGCTCCTCTTCTCT
GCATCCCCACCGCTTGAAGGCCCTTCCCTTCCAGAGTGTGATGTCATCCCTACCTGCTGAGGGATAC
AATAAGGTAGGGCCAGGCTATGGCCCTGGGAGGGGGCTCCGGAGCAGGAGAAATCCAGGGGTGGCTAC
AGCAGCGGCTTCCGAGACAGTGTCCCTATCCAGGGTATCACGCTGGAGGAAGGTGGGTGTGGACTGG
GGCTGTGAGTGTGAGTGTGCAAGAGATTGCTCTGCATGTTTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239742
 Blue=ORF Red=Cloning site Green=Tag(s)

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MPASISSIFPGPTLLSCGSEELDSEDAPPCCRLALGEPPIYGAAPIGIPRPPPPRGMHSPPRPAPS
PGTWESQPARSVRLGGPGGGAGGAGGRVLECPISIRITSIPTPEPPAALEDNPDWDGSDSPRDYPPPE
GFGGYREAGGQGGGAFFSPSPGSSLSWSFFSDASDEAALYAACDEVESELNEAASRFGLGSPLSPR
ASPRPWTPEDPWSLYGSPGGRGPEDSWLLLAPGPTPASPRPASPCGKRRYSSSGTPSSASPALSRRG
SLGEEGSEPPPPPLPLARDPGSPGPFDYVGAPPAESIPQKTRRTSSEQAVALPRSEEPASCNGKLPLG
AEESVAPPGSRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTSALPLDWPLPSQYEQLELRIEVQPR
AHHRAHYETEGSRGAVKAAPGGHPVVKLLGYSEKPLTLQMFIGTADERNLRPHAFYQVHRITGKMVATA
SYEAVVSGTKVLEMTLLPENMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQGGGK
VVSQAASVPIECSQSAQELPQVEAYSPSACSVRGGEELVLTGSNFLPDSKVVFIERGPDGKLQWEEE
ATVNRLQSNVTLTLTVPEYSNKRVS RPVQVYFYVSNRRKRSP TQSFRLPVICKEEPLDSSLRGFP
SASATPFGTDMDFSPRPPYPSPHEDPACETPYLSEFGYGMPLYPQTGPPPSYRPLRMFPETRGT
TGCAQPPAVSFLPRFPSPDYGGRGSSFSLGLPFSPAPFRPPPLPASPPLEGPFPSSQSDVHPLPAEGY
NKVGPYGPGEAPEQEKSRRGGYSSGFRDSVPIQGITLEEGCGTGGCECECVQEI ALHVC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001288802

ORF Size: 2667 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).

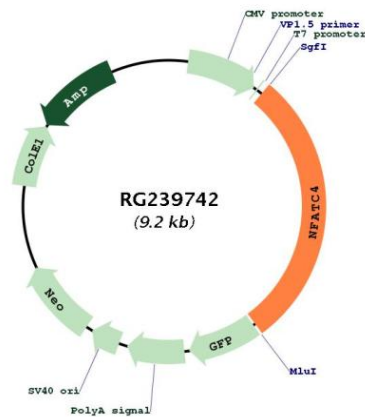
RefSeq: [NM_001288802.2](#)

RefSeq Size: 5538 bp

RefSeq ORF: 2670 bp

Locus ID:	4776
UniProt ID:	Q14934
Cytogenetics:	14q12
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Axon guidance, B cell receptor signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
MW:	94.4 kDa
Gene Summary:	This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG239742