

Product datasheet for **RC239742**

NFATC4 (NM_001288802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_001288802) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFATC4
Synonyms:	NF-AT3; NF-ATC4; NFAT3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239742 representing NM_001288802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGCTTCAATCTCCTCCATCTTCCAGTCCAACCTGCTTTTGTCTTGTGGCTCAGAAGAACTGG
 ACTCAGAGGATGCCCCGCCATGCTGCCGCTGGCCTTGGGAGAGCCCCCTCCCTATGGCGCTGCACCTAT
 CGGTATTCCTCCGACCTCCACCCCTCGGCCTGGCATGCATTTCGCCACCGCCGCGACCAGCCCCCTCACCT
 GGCACCTGGGAGAGCCAGCCCGCAGGTGGTGGAGCTGGGAGGACCAGGAGGGGGTCTGGGGGTGCTG
 GGGGTGGCGTGTCTCGAGTGTCCAGCATCCGCATCACCTCCATCTCTCCACGCCGGAGCCGCCAGC
 AGCGCTGGAGGACAACCCTGATGCCTGGGGGACGGCTCTCTAGAGATTACCCCCACCAGAAGGCTTT
 GGGGGCTACAGAGAAGCAGGGGGCCAGGTGGGGGGCCTTCTCAGCCAAGCCCTGGCAGCAGCAGCC
 TGTCTCGTGGAGCTTCTTCCGATGCCTCTGACGAGGCAGCCCTGTATGCAGCCTGCGACGAGGTGGA
 GTCTGAGCTAAATGAGGGCGCCTCCCGCTTTGGCCTGGGCTCCCCGCTGCCCTCGCCCCGGGCTCCCT
 CGGCCATGGACCCCGAAGATCCCTGGAGCCTGTATGGTCCAAGCCCCGAGGCCGAGGGCCAGAGGATA
 GCTGGCTACTCCTCAGTCTCCTGGGCCACCCAGCCTCCCCGCGGCCTGCCTCTCCATGTGGCAAGCG
 GCGCTATTCAGCTCGGGAACCCCATCTTCAGCCTCCCCAGCTCTGTCCCGCCGTGGCAGCCTGGGGAA
 GAGGGTCTGAGCCACCTCCACCACCCCATTCGCTCTGGCCCGGACCCGGGCTCCCCTGGTCCCTTTG
 ACTATGTGGGGGGCCACCAGCTGAGAGCATCCCTCAGAAGACACGGCGGACTTCACGCGAGCAGGCAGT
 GGCTCTGCCTCGGTCTGAGGAGCCTGCCTCATGCAATGGGAAGCTGCCCTGGGAGCAGAGGAGTCTGTG
 GCTCCTCAGGAGGTTCCCGAAGGAGGTGGCTGGCATGGACTACCTGGCAGTGCCTCCCCACTCGCTT
 TCTGCCACGCCAATATGAGCAGCTGGAGCTGAGGATCGAGGTACAGCCTAGAGCCACCACCGGGCCAC
 TATGAGACAGAAGGCAGCCGTGGAGCTGTCAAAGCTGCCCTGGCGGTACCCCGTAGTCAAAGCTCTAG
 GCTACAGTGAGAAGCCACTGACCCTACAGATGTTTCATCGGCACTGCAGATGAAAGGAACCTGCGGCCTCA
 TGCCTTCTATCAGGTGCACCGTATCACAGGCAAGATGGTGGCCACGGCCAGCTATGAAGCCGTAGTCAGT
 GGCACCAAGGTGTTGGAGATGACTCTGTGCCTGAGAACAACATGGCGGCCAACATTGACTGCGCGGAA
 TCCTGAAGCTTCGGAATTCAGACATTGAGCTTCGGAAGGGTGAGACGGACATCGGGCGCAAAAACACACG
 TGTACGGTGGTGTCCGGGTACACGTGCCACGGCGGGGAAAGGTGCTCTCAGTACAGGCAGCATCG
 GTGCCATCGAGTCTCCAGCGCTCAGCCAGGAGCTGCCACAGTGGAGGCCTACAGCCCAAGTGCCT
 GCTCTGTGAGAGGAGCGAGGAACTGGTACTGACTGGCTCCAACCTCCTGCCAGACTCCAAGGTGGTGT
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 GAGGTGACGCTGACCCTGACTGTCCCCGAGTACAGCAACAAGAGGGTTTCCCGGCCAGTCCAGGTCTACT
 TTTATGTCTCCAATGGGCGGAGGAAACGCAGTCTACCCAGAGTTTCAGGTTTCTGCCTGTGATCTGCAA
 AGAGGAGCCCCTACCGACTCATCTCTGCGGGTTCCTTCAGCATCGGCAACCCCTTTGGCACTGAC
 ATGGACTTCTCACCACCCAGGCCCCCTACCCCTCCTATCCCCATGAAGACCCTGCTTGGAAACCTCT
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 CTCCCCGCCCTTCCCTAGTGACCCGTATGGAGGGCGGGCTCCTCTTTCTCCCTGGGGTGCATTCT
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 GAGTGTATGCATCCCCTACCTGCTGAGGGATACAATAAGGTAGGGCCAGGCTATGGCCCTGGGAGGGG
 GCTCCGGAGCAGGAGAAATCCAGGGTGGCTACAGCAGCGGCTTCCGAGACAGTGTCCCTATCCAGGGTA
 TCACGCTGGAGGAAGGTGGGTGTGGACTGGGGCTGTGAGTGTGAGTGTGCAAGAGATTGCTCTGCA
 TGTTC

ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239742 representing NM_001288802
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MPASISSIFPGPTLLSCGSEELDSEDAPPCCRLALGEPPIYGAAPIGIPRPPPPRPMHSPPPRPAPSP
 GTWESQPARSVRLGGPGGGAGGAGGGRVLECPISIRITSIPTPEPPAALEDNPDWGDGSPRDYPPPEGF
 GGYREAGQGQGGGAFFSPSPGSSSLSSWSFFSDASDEAALYAACDEVESELNEAASRFLGSLPLSPRASR
 RPWTPEDPWSLYGPPGGRGPEDSWLLLSAPGTPASPRPASPCGKRRYSSGTPSSASPALSRRGSLGE
 EGSEPPPPPLPLARDPGSPGPFYVYGAPPAESIPQKTRRTSSEQAVALPRSEEPASCNGKLLPLGAEESV
 APPGGSRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTSALPPLDWPLPSQYEQLELRIEVQRAHHRAH
 YETEGSRGAVKAAAPGGHPVVKLLGYSEKPLTLQMFIGTADERNLRPHAFYQVHRITGKMOVATASYEAVVS
 GTKVLEMTLLPENMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQGGGKVVSVQAAS
 VPIECSQRSAQELPQVEAYSPSACSVRGGEELVLTGSNFLPDSKVVFIERGPDGKLQWEEATVNRQSN
 EVTLTLTVPEYSNKRVRPVQVYFYVSNRRKRSPQSFRLPVICKEEPLDSSLRGFPASATPFGTD
 MDFSPRRPPYPSPHEDPACETPYLSEFGYGMPLYPQTGPPPSYRPLRMFPETRGTTGCAQPPAVSF
 LPRPFSDPYGGRGSSSLGLPFSPPAPFRPPPLPASPPLEGPFPSSQSDVHPLPAEYGNKVGPGYGPGE
 APEQEKSRRGGYSSGFRDVPYIQGITLEEGCGTGGCECECVQEI ALHVC

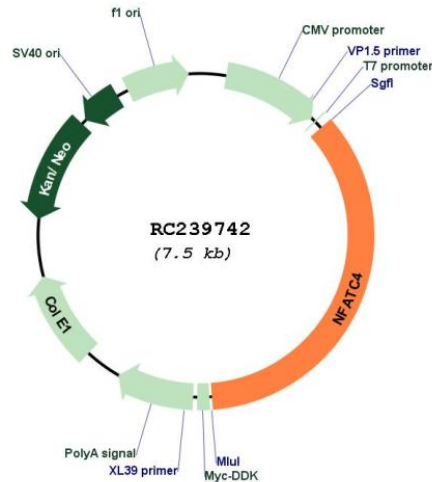
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


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).

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_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:	<p>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]</p>