

Product datasheet for **RC231414**

NFATC4 (NM_001198965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_001198965) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFATC4
Synonyms:	NF-AT3; NF-ATC4; NFAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC231414 representing NM_001198965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGGCCAGCTGCGAGGATGAGGAGCTGGAATTTAAGCTGGTGTTCGGGGAGGAAAAGGAGGCC
 CCCCGCTGGGCGCGGGGGATTGGGGGAAGAACTGGACTCAGAGGATGCCCGCCATGCTGCCGTCTGGC
 CTTGGGAGAGCCCTCCCTATGGCGCTGCACCTATCGGTATTCGCCGACCTCCACCCCTCGGCCTGGC
 ATGCATTCGCCACCGCCGCGACCAGCCCTCACCTGGCACCTGGGAGAGCCAGCCGCCAGGTCGGTGA
 GGCTGGGAGGACCAGGAGGGGTGCTGGGGTGTGGGGTGGCCGTGTCTCGAGTGTCCAGCATCCG
 CATCACCTCCATCTCCACGCGGAGCCGACGAGCGCTGGAGGACAACCTGATGCCTGGGGGAC
 GGCTCTCTAGAGATTACCCCCACCAGAAGGCTTTGGGGCTACAGAGAAGCAGGGGCCAGGGTGGG
 GGGCTTCTTCAGCCCAAGCCCTGGCAGCAGCAGCTGTCTCGTGGAGCTTCTTCTCCGATGCCTGA
 CGAGGCAGCCCTGTATGCAGCCTGCGACGAGGTGGAGTCTGAGCTAAATGAGGCGCCCTCCCGCTTGGC
 CTGGGCTCCCGCTGCCCTCGCCCCGGGCTCCCTCGGCCATGGACCCCGAAGATCCCTGGAGCCTGT
 ATGGTCCAAGCCCGGAGGCCGAGGGCCAGAGGATAGCTGGTACTCCTCAGTGTCTCTGGGCCACCCC
 AGCCTCCCGCGGCTGCCTCTCCATGTGGCAAGCGGCGTATTCCAGCTCGGGAACCCCATCTTACGCC
 TCCCCAGCTCTGTCCCGCGTGGCAGCCTGGGGGAAGAGGGGTCTGAGCCACCTCCACCACCCCATTCG
 CTCTGGCCCGGGACCCGGGCTCCCTGGTCCCTTTGACTATGTGGGGGCCACCAGCTGAGAGCATCCC
 TCAGAAGACACGGCGACTTCCAGCGAGCAGGAGTGGCTCTGCCTCGGTCTGAGGAGCCTGCCTCATGC
 AATGGGAAGTGCCTTTGGGAGCAGAGGAGTCTGTGGCTCCTCCAGGAGGTTCCCGGAAGGAGGTGGCTG
 GCATGGACTACCTGGCAGTGCCTCCCACTCGCTTGGTCCAAGGCCGATTGGGGACACAGCCCTAT
 CTTCAGGACCTCTGCCCTACCCCACTGGACTGGCCTCTGCCAGCCAATATGAGCAGCTGGAGCTGAGG
 ATCGAGGTACAGCCTAGAGCCCACCACCGGCCACTATGAGACAGAAGGAGCAGCCTGGAGCTGTCAAAG
 CTGCCCTGGCGGTACCCCGTAGTCAAGCTCCTAGGCTACAGTGAGAAGCCACTGACCCTACAGATGTT
 CATCGGCACTGCAGATGAAAGAACCTGCGGCCTCATGCCTTCTATCAGGTGCACCGTATCACAGGCAAG
 ATGGTGGCCACGGCCAGCTATGAAGCCGTAGTCAAGTGGCACCAAGGTGTTGGAGATGACTCTGCTGCCTG
 AGAACAACATGGCGCCAACATTGACTGCGCGGAATCCTGAAGCTTCGGAATTCAGACATTGAGCTTCG
 GAAGGGTGAAGCAGACATCGGGCGAAAAACACACGTGTACGGCTGGTGTCCGGGTACACGTGCCCCAG
 GCGGGCGGAAGGTCTCTCAGTACAGGCAGCATCGGTGCCATCGAGTGTCCAGCGCTCAGCCAGG
 AGCTGCCCCAGGTGGAGGCTACAGCCCAGTGCCTGCTGTGAGAGGAGGCGAGGAACCTGGTACTGAC
 TGGCTCCAATTCCTGCCAGACTCCAAGGTGGTGTTCATTGAGAGGGTCTGATGGGAAGCTGCAATGG
 GAGGAGGAGGCCACAGTGAACCGACTGCAGAGCAACGAGGTGACGCTGACCCTGACTGTCCCGAGTACA
 GCAACAAGAGGGTTTCCCGCCAGTCCAGGTCTACTTTTATGTCTCCAATGGGCGGAGGAAACGCAGTCC
 TACCCAGAGTTTCAGGTTTCTGCCTGTGATCTGCAAGAGGAGCCCTACCGACTCATCTCTGCGGGT
 TTCCCTCAGCATCGGCAACCCCTTTGGCACTGACATGGACTTCTACCAACCAGGCCCCCTACCCCT
 CCTATCCCATGAAGACCCTGCTTGGCAAACCTTACCTATCAGAAGGCTTCGGCTATGGCATGCCCC
 TCTGTACCCCAAGACGGGGCCCCACCATCCTACAGACCGGCCCTGCGGATGTTCCCTGAGACTAGGGGT
 ACCAAGTGAAGTGAATCATTGGCCGAGACCTGAGTGGCTCCCTGCACCTCTGGAGAAGAGCCTCCTG
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231414 representing NM_001198965
 Red=Cloning site Green=Tags(s)

MGAASCEDEEELFKLVFGEEKEAPPLGAGGLGEELDSEDAPPCCRLALGEPPPYGAAPIGIPRPPPPRPG
 MHSPPPRPAPSPGTWESQPARSVRLGGPGGGAGGAGGGRVLECPISIRITSIPTPEPPAALEDNPDWGD
 GSPRDYPPPEGFGGYREAGGQGGGAFFSPSPGSSSLSSWSFFSDASDEAALYAACDEVESELNEAASRFG
 LGSPLSPRASRPWPTEDPWSLYGSPGGRGPEDSWLLL SAGPPTPASPRPASPCGKRRYSSSGTPSSA
 SPALSRRGSLGEEGSEPPPPPLPLARDPGSPGPFDYVGAPPAESIPQKTRRTSSEQAVALPRSEEPASC
 NGKLPLGAEESVAPPGGSRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTSALPPLDWPLPSQYEQLELR
 IEVQPRAHHRAHYETEGSRGAVKAAPGGHPVVKLLGYSEKPLTLQMFIGTADERNLRPHAFYQVHRITGK
 MVATASYEAVVSGTKVLEMTLLPENMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQ
 GGGKVVSVQAASVPIECSQRSAQELPQVEAYSPSACSVRGGEELVLTGSNFLPDSKVVFIERGPDGKLQW
 EEEATVNRLQSNEVTLTLTVPEYSNKRVSRPVQVYFYVSNRRKRSTQSFRLPVICKEEPLDSSLRG
 FPSASATPFGTDMDFSPRRPPYPSYPHEDPACETPYLSEFGYGMPLYPQTGPPPSYRPLRMFPETRG
 TTVSEIIGRDLSGFPAPPGEPPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001198965

ORF Size: 2382 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_001198965.2](#)

RefSeq ORF: 2385 bp

Locus ID: 4776

UniProt ID: [Q14934](#)

Cytogenetics: 14q12

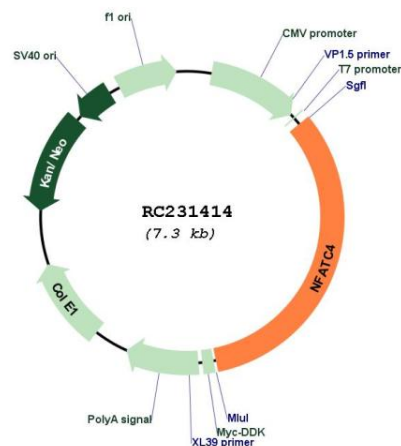
Protein Families: Druggable Genome, Transcription Factors

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: 84.7 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 RC231414

