

## Product datasheet for **RC230880**

### NFATC4 (NM\_001198966) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_001198966) 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)



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**ORF Nucleotide Sequence:**

>RC230880 representing NM\_001198966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATTGCGCACCGCCGCGACCAGCCCCCTCACCTGGCACCTGGGAGAGCCAGCCCGCCAGGTCGGTGA  
 GGCTGGGAGGACCAGGAGGGGTGCTGGGGGTGCTGGGGGTGGCCGTGTTCTCGAGTGTCCACGATCCG  
 CATCACCTCCATCTCTCCACGCGGAGCCGCCAGCAGCGCTGGAGGACAACCTGATGCCTGGGGGAC  
 GGCTCTCTAGAGATTACCCCCACCAGAAGGCTTTGGGGCTACAGAGAAGCAGGGGGCCAGGGTGGG  
 GGGCTTCTTACGCCAAGCCCTGGCAGCAGCAGCTGTCTCGTGGAGCTTCTTCTCCGATGCCTCTGA  
 CGAGGCAGCCCTGTATGCAGCCTGCGACGAGGTGGAGTCTGAGCTAAATGAGGCGCCCTCCCGCTTTGGC  
 CTGGGCTCCCGCTGCCCTCGCCCCGGGCTCCCTCGGCCATGGACCCCGAAGATCCCTGGAGCCTGT  
 ATGGTCCAAGCCCGGAGGCCGAGGGCCAGAGGATAGCTGGCTACTCCTCAGTGTCTCTGGGCCACCCC  
 AGCCTCCCGCGGCTGCCTCTCCATGTGGCAAGCGGCGCTATTCCAGCTCGGGAACCCCATCTTACGCC  
 TCCCCAGCTCTGTCCCGCGTGGCAGCCTGGGGGAAGAGGGGTCTGAGCCACCTCCACCACCCCATTTGC  
 CTCTGGCCCGGGACCCGGGCTCCCTGGTCCCTTTGACTATGTGGGGGCCCCACCAGCTGAGAGCATCCC  
 TCAGAAGACACGGCGGACTTCCAGCGAGCAGGCAGTGGCTCTGCCTCGGTCTGAGGAGCCTGCCTCATGC  
 AATGGGAAGCTGCCCTTGGGAGCAGAGGAGTCTGTGGCTCCTCCAGGAGGTTCCCGGAAGGAGGTGGCTG  
 GCATGGACTACCTGGCAGTGCCTCCCCACTCGCTTGGTCCAAGGCCGGATTGGGGACACAGCCCTAT  
 CTTCAGGACCTCTGCCCTACCCCACTGGACTGGCCTCTGCCAGCCAATATGAGCAGCTGGAGCTGAGG  
 ATCGAGGTACAGCCTAGAGCCCACCACCGGCCACTATGAGACAGAAGGCAGCCGTGGAGCTGTCAAAG  
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 ATGGTGGCCACGGCCAGCTATGAAGCCGTAGTCAAGTGGCACCAAGGTGTTGGAGATGACTCTGCTGCCTG  
 AGAACAACATGGCGGCAACATTGACTGCGCGGAATCCTGAAGCTTCGGAATTCAGACATTGAGCTTCG  
 GAAGGGTGGAGCGGACATCGGGCGCAAAAACACACGTGTACGGCTGGTGTCCGGGTACACGTGCCCCAG  
 GGCGGGGGAAGGTGCTCTCAGTACAGGCAGCATCGGTGCCCATCGAGTGTCCAGCGCTCAGCCAGG  
 AGCTGCCCCAGGTGGAGGCTACAGCCCAGTGCCTGCTGTGAGAGGAGGCGAGGAAGTGGTACTGAC  
 TGGCTCCAACCTCTGCCAGACTCCAAGTGGTGTTCATTGAGAGGGTCTGATGGGAAGCTGCAATGG  
 GAGGAGGAGGCCACAGTGAACCGACTGCAGAGCAACGAGGTGACGCTGACCTGACTGTCCCGAGTACA  
 GCAACAAGAGGGTTTCCCGGCCAGTCCAGGTCTACTTTTATGTCTCCAATGGGCGGAGGAAACGCAGTCC  
 TACCCAGAGTTTTCAGTTTCTGCCTGTGATCTGCAAAGAGGAGCCCTACCGGACTCATCTCTCGGGGT  
 TTCCCTTACAGCATCGGCAACCCCTTTGGCACTGACATGGACTTCTACCCACCCAGGCCCCCTACCCCT  
 CCTATCCCATGAAGACCCTGCTTGCGAACTCCTTACCTATCAGAAGGCTTCGGCTATGGCATGCCCC  
 TCTGTACCCAGACGGGGCCCCACCATCCTACAGACCGGGCTGCGGATGTTCCCTGAGACTAGGGGT  
 ACCACAGGTTGTGCCAACCACCTGCAGTTTCTTCTTCCCGCCCTTCCCTAGTGACCCGATGGAG  
 GGCGGGGCTCCTTTCTCCCTGGGCTGCCATTCTCTCCGCCAGCCCTTTCCGGCCGCTCCTCTTCC  
 TGATCCCCACCGCTTGAAGGCCCTTCCCTCCAGAGTGATGTGCATCCCTACCTGCTGAGGGATAC  
 AATAAGGTAGGGCCAGGCTATGGCCCTGGGGAGGGGCTCCGGAGCAGGAGAAATCCAGGGGTGGCTACA  
 GCAGCGGCTTCCGAGACAGTGTCCCTATCCAGGTATCACGCTGGAGGAAGTGAAGTGAATCATTGGCCG  
 AGACCTGAGTGGCTTCCCTGCACCTCTGGAGAAGAGCCTCCTGCC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >RC230880 representing NM\_001198966  
 Red=Cloning site Green=Tags(s)

MHSPPPRPAPSPGTWESQPARSVRLGGPGGGAGGAGGGRVLECPISIRITSIPTPEPPAALEDNPDWGD  
 GSPRDYPPPEGFGGYREAGGQGGGAFFSPSPGSSSLSSWSFFSDASDEAALYAACDEVESELNEAASRFG  
 LGSPLSPRASRPWTPEDPWSLYGSPGGRGPEDSWLLL SAPGTPASPRPASPCKRRYSSTSGTPSSA  
 SPALSRRGSLGEEGSEPPPPPLPLARDPGSPGPFDYVGAPPAESIPQKTRRTSSEQAVALPRSEEPASC  
 NGKPLGAEESVAPPGSRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTSALPPLDWPLPSQYEQLELR  
 IEVQPRAHHRAYETEGSRGAVKAAPGGHPVVKLLGYSEKPLTLQMFIGTADERNLRPHAFYQVHRITGK  
 MVATASYEAVVSGTKVLEMTLLPENNMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQ  
 GGGKVVSVQAASVPIECSQRSAQELPQVEAYSACSVRGGEELVLTGSNFLPDSKVVFIERGPDGKLQW  
 EEEATVNRLQSNEVTLTLTVPEYSNKRVS RPVQVYFYVSNRRKRSPTQSFRLPVICKEEPLPDSLRG  
 FPSASATPFGTDMDFSPRRPPYPSYPHEDPACETPYLSEFGYGMPLYPQTGPPPSYRPLRMFPETRG  
 TTGCAQPPAVSFLPRPFPSDPYGGRSSFSLGLPFSPAPFRPPPLPASPPLEGPFPSQSDVHPLPAEGY  
 NKVGPYGPGEAPEQEKSRRGGYSSGFRDSVPIQGITLEEVSEIIGRDLSGFPAPPGEPPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001198966

**ORF Size:** 2496 bp

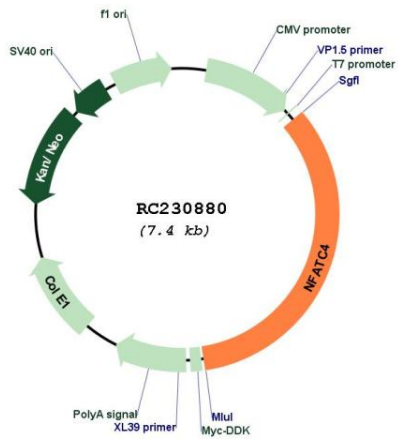
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001198966.2, NP_001185895.1</u>
<b>RefSeq Size:</b>	4630 bp
<b>RefSeq ORF:</b>	2499 bp
<b>Locus ID:</b>	4776
<b>UniProt ID:</b>	<u>Q14934</u>
<b>Cytogenetics:</b>	14q12
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	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
<b>MW:</b>	88.3 kDa
<b>Gene Summary:</b>	<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>

Product images:



Circular map for RC230880