

Product datasheet for **SC117276**

NFATC4 (NM_004554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_004554) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFATC4
Synonyms:	NF-AT3; NF-ATC4; NFAT3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117276 sequence for NM_004554 edited (data generated by NextGen Sequencing)

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ATGGGGGCGGCCAGCTGCGAGGATGAGGAGCTGGAATTTAAGCTGGTGTTCGGGGAGGAAAAGGAGGCC
CCCCGCTGGGCGCGGGGGATTGGGGGAAGAAGTGGACTCAGAGGATGCCCGCCATGCTGCCGTCTGGC
CTTGGGAGAGCCCTCCCTATGGCGTGCACCTATCGGTATTCGCCGACCTCCACCCCTCGGCCTGGC
ATGCATTGCGCACCGCCGACAGCCCTCACCTGGCACCTGGGAGAGCCAGCCCGCCAGGTCGGTGA
GGCTGGGAGGACAGGAGGGGTGCTGGGGGTGCTGGGGGTGGCCGTGTTCTCGAGTGTCCAGCATCCG
CATCACCTCCATCTCTCCACGCGGAGCCGCCAGCAGCGCTGGAGGACAACCCTGATGCCTGGGGGAC
GGCTCTCTAGAGATTACCCCCACCAGAAGGCTTTGGGGGTACAGAGAAGCAGGGGGCCAGGGTGGG
GGGCTTCTTCAGCCCAAGCCCTGGCAGCAGCAGCTGTCTCGTGGAGCTTCTTCTCCGATGCCTTGA
TGAGGCAGCCCTGTATGCAGCCTGCGACAGGTGGAGTCTGAGCTAAATGAGGCGCCTCCCGCTTTGGC
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AGCCTCCCGCGGCTGCCCTCTCATGTGGCAAGCGGCGCTATTCAGCTCGGGAACCCCATCTTACGCC
TCCCCAGCTCTGTCCCGCGTGGCAGCCTGGGGGAAGAGGGGTCTGAGCCACCTCCACCACCCCATTCG
CTCTGGCCCGGACCCGGGCTCCCTGGTCCCTTTGACTATGTGGGGGCCACCAGCTGAGAGCATCCC
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AGCTGCCCAAGTGGAGGCTACAGCCCAGTGCCTGCTGTGAGAGGAGGCGAGGAAGTGGTACTGAC
TGCTCCAATCTCTGCCAGACTCCAAGTGGTGTTCATTGAGAGGGTCTGATGGGAAGTGCATGG
GAGGAGGAGGCCACAGTGAACCGACTGCAGAGCAACGAGGTGACGCTGACCCTGACTGTCCCGAGTACA
GCAACAAGAGGGTTTCCCGGCCAGTCCAGTCTACTTTTATGTCTCCAATGGGCGGAGGAAACGCAGTCC
TACCCAGAGTTTTCAGTTTCTGCCTGTGATCTGCAAAGAGGAGCCCTACCGGACTCATCTCTGCGGGT
TTCCCTTACAGCATCGGCAACCCCTTTGGCACTGACATGGACTTCTACCCACCCAGGCCCCCTACCCCT
CCTATCCCATGAAGACCCTGCTTGCAGAACTCCTTACCTATCAGAAGGCTTCGGCTATGGCATGCCCTC
TCTGTACCCCAAGCGGGGCCCCACCATCCTACAGACCGGGCTGCGGATGTTCCCTGAGACTAGGGT
ACCACAGGTTGTGCCAACCACCTGCAGTTTCTTCTTCCCGCCCTTCCCTAGTGACCCGATGGAG
GGCGGGCTCCTTTCTCCCTGGGCTGCCATTCTCTCCGACAGCCCTTTCGGCCGCTCCTCTTC
TGCATCCCACCCGTTGAAGGCCCTTCCCTTCCAGAGTGATGTGCATCCCTACCTGCTGAGGGATAC
AATAAGGTAGGGCCAGGCTATGGCCTGGGGAGGGGGCTCCGGAGCAGGAGAAATCCAGGGTGGCTACA
GCAGCGGCTTCCGAGACAGTGTCCCTATCCAGGTATCACGCTGGAGGAAGTGAAGTGAATCATTGGCCG
AGACCTGAGTGGCTTCCCTGCACCTCCTGGAGAAGAGCCTCCTGCCTGA

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Clone variation with respect to NM_004554.4
561:t=>c

Restriction Sites: Please inquire

ACCN: NM_004554

Insert Size: 3600 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_004554.3.
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_004554.3 , NP_004545.2
RefSeq Size:	4976 bp
RefSeq ORF:	2709 bp
Locus ID:	4776
UniProt ID:	Q14934
Cytogenetics:	14q12
Domains:	IPT
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
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> <p>Transcript Variant: This variant (2) is alternatively spliced at the 5' and 3' ends compared to transcript variant 1. This results in the use of an in-frame downstream AUG, translation termination at a downstream stop codon, and a shorter isoform (2) with a distinct C-terminus compared to isoform 1.</p>