

Product datasheet for **SC306769**

NFAT2 (NFATC1) (NM_172387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT2 (NFATC1) (NM_172387) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT2
Synonyms:	NF-ATC; NF-ATc1.2; NFAT2; NFATc
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_172387, the custom clone sequence may differ by one or more nucleotides

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ATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTAACCAGCGC
GACGAGGGCGCCGCCGGCCGCCCCAGAACTATGGCTATGCATCCTCCAACGTCAGC
CCCGCCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCGTGCCACAACCTTCAG
ACCTCCACACCGGGCATCATCCCGCCGGCGGATACCCCTCGGGGTACGGAGCAGCTTTG
GACGGTGGGCCCGCGGGTACTTCTCTCCTCCGGCCACACCAGGCTGATGGGGCCCT
GCCCTGGAGAGTCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAAC
CAGTTTTTCCACGATGTGGAGGTGGAAGACGTCCTCCCTAGTCCAAACGGTCCCCCTCC
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GCCAGCAGCCTGTCTCCCGGAGCTGCAACTCAGAGGCCTCCTCTACGAGTCCAACCTAC
TCGTACCCGTACGCGTCCCCCAGACGTCGCCATGGCAGTCTCCTGCGTGTCTCCCAAG
ACCACGGACCCCGAGGAGGGCTTTCCCGCGGGCTGGGGCCCTGCACACTGCTGGTTCC
CCGCGGCACTCCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGTGGGT
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CAGCCGCCTACTCACCCACCCTCGCCACGCGTCCCGCAGCGCTCCCGCGGGTCC
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CGCAGCGTGTCCCTGCAGGTGGCTCCAACCCCATCGAATGCTCCAGCGCTCAGCTCAG
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CCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAACCTGACCGGACCTGTGCAAGCCG
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GTCAGTTTCTACGCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTCACTAC
CTTCCCGCAACGTTCCAATTATAAAAACAGAACCCTGATGATTATGAGCCTGCTCCA
ACCTGTGGACCGGTGAGCCAGGGTTAAGTCTCTCCCAAGCATACTACAGCCAGCAG
CTCGCATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCGCAG
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CGCCCGCAGCACCTGCCGTCCACGGTCCGACGGGACGAGTCTCCGACTGCCGGGCCACGG
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AAGCGAGAGCCTGAAGAGTTGGACAGTTGTACCTGGATGACGTAATGAATAATACGA
AATGACCTCTCCAGCAGGACCCACTCCTAG

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Restriction Sites: Please inquire

ACCN:	NM_172387
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_172387.1</u> , <u>NP_765975.1</u>
RefSeq Size:	4621 bp
RefSeq ORF:	2793 bp
Locus ID:	4772
UniProt ID:	<u>O95644</u>
Cytogenetics:	18q23
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Axon guidance, B cell receptor signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
Gene Summary:	<p>The product of this gene is a component of the nuclear factor of activated T cells 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 (TCR) stimulation, and an inducible nuclear component. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (3) has an alternate 5' terminal exon, which results in a different 5' UTR and 5' coding region, compared to variant 6. The encoded isoform (C) is shorter and has a distinct N-terminus, compared to isoform F.</p>