

## Product datasheet for **SC337636**

### NFATC4 (NM\_001288802) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_001288802) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001288802, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGCTTCAATCTCCTCCATCTTCCAGGTCCAACCTGCTTTTGTCTTGTGGCTCAGAAGAACTGG
ACTCAGAGGATGCCCCGCATGCTGCCGTCTGGCCTTGGGAGAGCCCCCTCCCTATGGCGCTGCACCTAT
CGGTATTCCTCCGACCTCCACCCCTCGGCCTGGCATGCATTCGCCACCCGCGGACCCAGCCCCCTCACT
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CGGCCATGGACCCCGAAGATCCCTGGAGCCTGTATGGTCCAAGCCCGGAGGCCGAGGGCCAGAGGATA
GCTGGCTACTCCTCAGTCTCTGGGCCACCCAGCCTCCCCGGGCTGCCTCTCCATGTGGCAAGCG
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ACCTATCAGAAGGCTTCGGCTATGGCATGCCCCCTCTGTACCCCAAGACGGGGCCCCCACCATCCTACAG
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GAGTGATGTGCATCCCTACCTGCTGAGGGATAACAATAAGGTAGGGCCAGGCTATGGCCCTGGGGAGGGG
GCTCCGGAGCAGGAGAAATCCAGGGGTGGCTACAGCAGCGGCTTCCGAGACAGTGTCCCTATCCAGGGTA
TCACGCTGGAGGAAGGTGGGTGTGGACTGGGGCTGTGAGTGTGAGTGTGCAAGAGATTGCTCTGCA
TGTTTGTGA
    
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001288802

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<a href="#">NM_001288802.1</a> , <a href="#">NP_001275731.1</a>
<b>RefSeq Size:</b>	5538 bp
<b>RefSeq ORF:</b>	2670 bp
<b>Locus ID:</b>	4776
<b>UniProt ID:</b>	<a href="#">Q14934</a>
<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>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> <p>Transcript Variant: This variant (6) lacks part of the 5' coding region, contains an alternate 5'-terminal exon, and initiates translation from an alternate start codon, compared to variant 1. The encoded isoform (6) has a shorter and distinct N-terminus, compared to isoform 1.</p>