

## Product datasheet for **SC109490**

### NFAT2 (NFATC1) (NM\_172388) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT2 (NFATC1) (NM_172388) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT2
Synonyms:	NF-ATC; NF-ATc1.2; NFAT2; NFATc
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172388, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCAGCTTTTCATTGGGACGGCGGACGACCGCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACC
GCATCACAGGGAAGACCGTGTCCACCACGACCACGAGGCCATCCTCTCCAACACCAAAGTCTGGAGAT
CCCCTCCTGCCGGAAGACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAACTCC
GACATTGAACTTCGAAAGGAGAGACGGACATCGGGAGGAAGAACAACACGGGTACGGCTGGTGTCCGCG
TTCACGTCCCGAACCCAGCGGCCGACGCTGTCCCTGCAGGTGGCTCCAACCCATCGAATGCTCCCA
GCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGCGGGAAG
AAGATGGTCTGTCTGGCCACAACCTTCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCCCCAGATG
GCCACCATGTCTGGGAGATGGAAGCGAAAACCTGACCGGGACCTGTGCAAGCCGAATCTCTGGTGGTTGA
GATCCCGCCATTTTCGGAATCAGAGGATAAACCAGCCCCGTTACAGTCAGTTTCTACGTCTGCAACGGGAAG
AGAAAGCGAAGCCAGTACCAGCGTTTACCTACCTTCCCGCCAACGTTCCAATTATAAAAACAGAACCCA
CTGATGATTATGAGCCTGCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCTCTCCAAGACCATA
CTACAGCCAGCAGCTCGCGATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCGTCCG
CAGAGAAGCACCCCTGATGCCAGCGGCCCTGGCGTGAGCCCCAAGCTCCACGACCTTCTCCCGCTGCCT
ACACCAAGGGCGTTGCCAGCCCGGGCCACTGTACCTCGGACTCCCGCAGCCGGCCGAGAGGCCCCCGC
CGTCCAGGACGTGCCAGGCCAGTGGCCACGACCCCGGCTCGCCCGGGCAGCCACCCCGGCCCTGCTG
CCACAGCAGTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_172388 unedited</p> <pre> NGTTTCGGCATTNTTNGTATACGATCTCACTATAGGGCGGCCGCGATTTCGGCACGAGGAAC CGAACCCCTGGCGGCCGCGACCCCGGCTCCCGCCCCGGCCCCGGCCCCGGCCCCGACCCGC CATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTTAACCAGCG CGACGAGGGCGCCGCGCGGCCGCCAGCCCGACCCCTGCCGCCCTGGACTGGCAGCTG CCGTCCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCCACCACCGA GCCACTACGAGACGGAGGCGACCCGGGGGCGGTGAAGGCGTCGGCCGGAGGACACCCC ATCGTGCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTCATTGGG ACGGCGGACGACCGCCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACCCCATCACAGGG AAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCTGGAGATC CCACTCCTGCCGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTC AGAAACTCCGACATTGAACTTCGAAAGGAGAGACGGACATCGGGAGGAAGAACACACGG GTACGGCTGGTGTCCGCGTTCACGTCCCGCAACCCAGCGGCCGACGCTGTCCCTGCAG GTGGCCTCCAACCCCATCGAATGCTCCCAGCGCTCAGCTCAGGAGCTGCCTCTGGTGGAG AAGCAGAGCACGGACAGTATCCGTTTCGTGGGCGNAAGAAGATGGCCCTGTCCGGCCAC ACTTTCTGCAGGACTCCAAGTCAATTCGTGGGCGNAAGAAGATGGCCCTGTCCGGCCAC ACTTTCTGCAGGACTCCAAGTCAATTCGTGGGCGNAAGAAGATGGCCCTGTCCGGCCAC AAGATGGAGCGAAACTGACCGGGCCTGTGCAAGCGCATTCTGTGG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_172388 unedited</p> <pre> GTACCGCGCCGCAATCTAGTAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTACAGCAA AAAAACGGCTTTATTGGATCTATTTCTAACTACAAAGACAGCTGACACAGACATCAAAC GTTTCCTTTTCAATGACAGTCCCCTGAAAAGGCTGCACGTGACTCCTACAGTCCCGGT GCAGGGTACCCAGCCGCAGGGGGGACGCGGCCACACGTCTTACGGTTACGTGCAGACCG ACGGGATGGCCTTCAGGTGTTTCTTTCCGTGAGTGAAACACAAGAGACGCGATTGTGCC GGAGCGCACGGTACAGGCCGTTCTTCTGCGGGAGCCCTTTTTCCATCAGCGACGTTCTG TTCAGGGACTTCACAGCCGAAGCCTCCACCCGACGGGGCATTATAGGCAGTCCCATAGA GGGGCTTTATTTTCTAAGGCCCTAGTCCAGGCCCCCCCGGCTTCAATGAATAACACCTGC CTCCCGCGCTCCGGACCACTAGATCGTTGGGAGTATTCTTGCTGTAAACCCCTCTTT GGCCTTAGTGCCCCCATCGCCTCTACACCTCTACCGGAGCCTTGTCCTTCGACCCAC ACCCCTCCCCGTCCCCTACCAATCCCAGCTCACCGGAATCCCTACCCAATTCACCCCG TTCTGTCTTCTGGTCCCCTCAACCTGAGTCCCCCTGCCTCCTTTTATCATGTCCAC AAGTTCGGACCCCTCGTCTCCCGATGCCTTCAATATTGTTATTTTCTCATGTTTAG TTCTCGAACCTCCCGACCTCCAGCTACCGAGCTTCATGAGTTTCGCCTGTTACAGGGCA ACTACATCCCTACGCACCCCTCACCGCTCTATTGCCACCCGCGCTTTTCTCGCCAT TCGTCCTTCCACCCGCTCCTATTATGTGCCCTACTCCCGCGACCGGAGCTGGGTCCAC CGAGTATATGGCATCTTACTGACCATATCATTG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_172388
<b>Insert Size:</b>	3250 bp
<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_172388.1</a> , <a href="#">NP_765976.1</a>
<b>RefSeq Size:</b>	3671 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	4772
<b>UniProt ID:</b>	<a href="#">O95644</a>
<b>Cytogenetics:</b>	18q23
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Axon guidance, B cell receptor signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
<b>Gene Summary:</b>	<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 (4) lacks an internal exon in the 5' region, which results in a downstream translation start codon, and has an alternate splice site in the 3' coding region, compared to variant 6. The encoded isoform (D) is shorter at both the N- and C- termini, compared to isoform F.</p>