

Product datasheet for **SC109493**

NFAT4 (NFATC3) (NM_173163) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT4 (NFATC3) (NM_173163) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT4
Synonyms:	NF-AT4c; NFAT4; NFATX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_173163, the custom clone sequence may differ by one or more nucleotides

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ATGACTACTGCAAACGTGGCGCCACGACGAGCTCGACTTCAAACCTCGTCTTTGGCGAGGACGGGGCGC
CGGCGCCGCCCGCCCGGGCTCGCGGCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTT
TAATGTAGATCCACCTCCATCTACTTTAAACCACACCCTTTGCTTACCACATCATGGATTACCGTCTCAC
TCTTCTGTTTTGTCAACATCGTTTTAGCTCCAAAGTCACAAAACTATGAAGGAACCTGTGAGATTCCTG
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TCCTAACTGTCATCAAGAATTAGATGCACATGAAGATGACCTACAGATAAATGACCCAGAACGGGAATTT
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TATTTATGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCGATTTACCCTTGGATCCCCTCTGACT
TCTCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAACTTGGCATCAACAGTATGGACTTGGACT
CATTATACCCAGGCAATCTCCTTGCCACTCTCCTAGATCCAGTGTCACTGATGAGAATTGGCTGAGCCC
CAGGCCAGCCTCAGGACCTCATCAAGGCCACATCCCCCTGTGGAAACGGAGGCACTCCAGTGCAGAA
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GGTGCATTTTATCTTTGCAATGGCAAGAGGAAAAAAGCCAGTCTCAACGTTTTACTTATACACAGTT
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CTCAGACCCAGAGGCCTTCTCTGATTCAAGGTGTTTACATGACAGTGTACTGTGACAGCAGAGAAGTTT
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TGGCTAGTTACCGCTTCTGGGCCACCATCTCCTCAGCTTCAAGCTATGCCTTACCAATCTCCTAGCTC
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TCTGCAGGACATCACTTTAGATGATGATTTGTTTACCAGTAATAATTTTACTTGTCTCAGTTGAGACCT
ACGTTTTGGCCAGTCCCAGCAGGAAGATATCTGAGGAATCTAGAGTGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_173163 unedited NTTGTGATTTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGGGGGACA TTGGCTAAGCCGACAGTGGAGGCTTAGGCACCGGTGGCGGGCGGCTGCGGTTCTCTGGTGC TGCTCGGCGCGCGGCCAGCTTTCGGAACGGAACGCTCGGCGTCCGCGGGCCCCGCCGGAA AGTTTGCCGTGGAGTCGCGACCTTTGGCCCGCGGCCCGGCATGAAGCGGCGTTGAGG AGCTGTGCCCGCGCTTCCGCTGCCCGCGCGCCCTGAGGAGGAGCTGCAGCACCTT GGGCCACGCCGATGACTACTGCAAACTGTGGCGCCACGACGAGCTCGACTTCAAACCTCG TCTTTGGCGAGGACGGGCGCGCCGCCCGCCCGGGCTCGCGGCTGCAGATCTTG AGCCAGATGATTGTCATCCATTACATCTTTAATGTAGATCCACCTCCATCTACTTTAA CCACACCCTTTGCTTACCACATCATGGATTACCGTCTCACTCTTCTGTTTTGTCACCAT CGTTTCAGCTCCAAAGTCAAAAACATGAAGGAACTTGTGAGATTCCTGAATCTAAAT ATAGCCCATAGGTGGTCCCAAACCTTTGAGTGCCCAAGTATCAAATTACATCTATCT CTCCTAACTGTCATCAAGAATTAGATGCACATGAAGATGACCTACAGATAAATGACCCAG AACGGGAATTTTGGAAAGGCCCTTAGAGATCATCTCTATCTTCTCTTCTGAGCCATTCT ACCGGGAGTCTTCTTCTAGTCTAGTCCGCGCAGCAGCATCTCTTAGGNANTGGTNTC TCTGATGCATCTTCTTGTGAATCGCTTACATATTATGATGATGTGGACTCANAGTGAAT GAAGCTGCAGCCGATTACCCCTTGATCCCTGACTCCNCTGGNGGGCTCTCAGGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_173163 unedited TCGATTTACTATGNTACCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCT TTTCTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAGAGGGCTTAT CAAAAGTTCCTATTTTAAAAATTATCATAAAAACTAAAGGGCCCTCAAATGACCATAAA GCAGTACAAATACCAATCCTAGCTAAGTAACCGGTCACCTGCAAAAGCAGCACCTCGG AAACAAGAGAGCCTGGTGCATTCACACTCAAAGCACCCATCATATAAAAGTATCCTAGTT AAATATAAAAAGCAAAGTTCATTTCCCAAAGCTCAAACAGCCTATGCTGCTCCTGTTCT TTTGCCAAATCTACCAAGGCCTGAGGTGGAGGAATGCTACTTTCCCAAAATGGGGGG TCCCACTCCTGGCCCAAACCTGAAGGCTGCAAAGTTGGAACCAAGGTCCAAGGAGAG AAACATGCTGAGAAGTTGGTGGTGGACACAAGGCTGCAGTAAGCACTGTTAGAGCCCATC AGATCTTCTAAATCCAGGGACTCAGGACTCGGGAGGGGAGCCTGCCTGCTCACCCTGC TCCTTGGGAAACAGAAATCTGGGACATGTCTCTCCAATTATCTCGTTTACATCCTAA AGTGATGTCCTGCAGACCAATGGTTGCAAAGTTAGGCTCTCGATCTTCTGGTTCAAGTTT AATGCTCACAGTTGCCCATCAGGTGGAATGACGCTGGATCACACAACTGGGACATAT TAAGGATGAAGGTGCAGAAAGACCCCTGGCCGTACTTTGGGCTTGGAGTGAGTGCTG TCCAAATGCATTCTGGTGGCTGGAGAACGTGATGAGGCACTTCTGAGCTAGGAGATTGG TAAGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_173163
Insert Size:	4500 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).
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_173163.1 , NP_775186.1
RefSeq Size:	6438 bp
RefSeq ORF:	6438 bp
Locus ID:	4775
UniProt ID:	Q12968
Cytogenetics:	16q22.1
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 member of the nuclear factors 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. Other members of this family participate to form this complex also. The product of this gene plays a role in the regulation of gene expression in T cells and immature thymocytes. Several transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (3) contains an additional segment in the coding region, which causes a frameshift, compared to variant 1. The resulting isoform (3) contains a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>