

## Product datasheet for **SC117277**

### **NFAT4 (NFATC3) (NM\_004555) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NFAT4 (NFATC3) (NM_004555) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT4
Synonyms:	NF-AT4c; NFAT4; NFATX
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004555, the custom clone sequence may differ by one or more nucleotides

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ATGACTACTGCAAACGTGGCGCCACGACGAGCTCGACTTCAAACCTCGTCTTTGGCGAGGACGGGGCGC
CGGCGCCGCCCGCCCGGGCTCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTT
TAATGTAGATCCACCTCCATCTACTTTAAACCACACCCTTTGCTTACCACATCATGGATTACCGTCTCAC
TCTTCTGTTTTGTCAACATCGTTTTAGCTCCAAAGTCACAAAACTATGAAGGAACCTGTGAGATTCCTG
AATCTAAATATAGCCATTAGGTGGTCCCAAACCTTTGAGTGCCCAAGTATTCAAATTACATCTATCTC
TCCTAACTGTCATCAAGAATTAGATGCACATGAAGATGACCTACAGATAAATGACCCAGAACGGGAATTT
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GGTGCATTTTATCTTTGCAATGGCAAGAGGAAAAAAGCCAGTCTCAACGTTTTACTTATACACAGTT
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CTCAGACCCAGAGGCCTTCTCTGATTCCAGGTGTTTACATGACAGTGTACTGTGACAGCAGAGAAGTTT
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TCTGCAGGACATCACTTTAGATGATGACCAATTTATATCTGACTTGAACACCAGCCATCAGGTTACGCA
GAGAAATGGCCTAACACAGTGTGCTCTCATGTCCAGCTCCTTTCTGGAGAATCTAG
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004555 unedited          NTGTGCGNNATATTTGTATACGACTCACTATAGGGCGGCNCGCGAATTCGCACCAGGCGGG          CGGCTGCGGTTCTCTGGTGTCTGCTCGGCGCGCGCCAGCTTTCGGAACGGAACGCTCGGCG          TCGCGGGCCCCCGCCGAAAGTTTGCCGTGGAGTCGCGACCTCTTGGCCCGCGCGGCCCG          GCATGAAGCGGCGTTGAGGAGCTGCTGCCGCGCTTGGCGTCCGCGCCGCGCCGCTGA          GGAGGAGCTGCAGCACCTGGGCCACGCCGATGACTACTGCAAACTGTGGCGCCACGAC          GAGCTCGACTTCAAACCTCGTCTTTGGCGAGGACGGGGCGCGCGCCCGCCCGCCCGGGC          TCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGAT          CCACCTCCATCTACTTTAACCACACCACTTTGCTTACCACATCATGGATTACCGTCTCAC          TCTTCTGTTTTGTACCATCGTTTTAGCTCCAAAGTACAAAAACTATGAAGGAACCTTGT          GAGATTCCTGAATCTAAATATAGCCATTAGGTGGTCCCAAACCTTTGAGTGCCCAAGT          ATTCAAATTACATCTATCTCTCAACTGTCATCAAGAATTAGATGCACATGAAGATGAC          CTACAGATAAATGACCCAGAACGGGAATTTTTGGAAAGGCCTTCTAGAGATCATCTCTAT          CTTCTCTTGAGCCATCCTACCGGGAGTCTTCTTAGTCTAGTCTGCCAGCAGCATC          TCTTCTAGGAGTTGGNTCTGTATGCATCTTCTGTGAATCGCTTTCACATATTTATGAT          GATGTGGACTCAGAGTTGAATGAAGCTGCAGCCGATTTACCCTTGATCCCTCTGACTT          CTCTGGGGNCTCCTCGGGGCTGCCCTGGAGAGAACTTGCATCACA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004555 unedited          CTATGAACCGCGGCACGCAATCTAGTATCGAGTNCCTTTTTTTTTTTTTTTTTTTTTTTTT          TTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCTCTAAAAGGCTTATAAAAAGGTCCTTTTTTTA          AAAATTATCCTAAAACCAAAGGGGCCCTTAAATGACCCTTAAGGAGTTCAAATTACCAA          TTCTTTCTTAATAACCAGGGCACCTGGAAGAGCAGCACCCCGAAACAAAAAACCTGGT          GGATTTACACTCAAAGGACCCCTCATATAAAAGGATCCCAATTAATATAAAAAAGAAAG          TTTATTTCCCAAAGCTTAAAAGCCTATGCTGGTCTGGTTTTTTGCCAAAATTACCCA          AGGGCCGAGGGGGGGGAATGGTTCTTTCCCAACAATGGGGGGGTCCTCTCTGGGCC          CCAACTTAAGGGTTGAAAATCTGAAAACCTAAGCGCAACGTAATAAACTGTCCGAAAA          TTTGGTGGGGGACTAAAGGCGCAGTACAACCCCTTTAAGCCCCCTACATTTTTCTTT          TTTATTTGGTCATATTACTCTCTCCGCGATCCTTCTCTCTTCCCATTTCTAATCACC          CACATTTACCACCACCCCTTCTACCAATAATCATTCTCACACCTCCTTCTCACATCGTC          CATCTTTCTATTTGGCTAACCCACCTGTTGTCTCGACCTCATACTTCCGTTTTACCTTACCA          ACTTCTCTATTTCTATCTTCTGGCCAACAATTATCTCACCTACTGCGCCACCCCCCA          GCCCATACTAACCATTTATATATAGACAACCTCTCCATCTTTCTATCTATCGCTGC          TTCACTTGCCACCCCGACCATATGTTTTCTACTTATTCTCCCGTGTAGTTACTACTCC          GCCAAGTCTTCTCTATAACCCGCTCGTTCATCCTATTCCACTTCTAACACCAGTACC          ACCCTCTTTTCATTACATTTATGTCTTCTGTATTCCACACCACGCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004555
<b>Insert Size:</b>	4000 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_004555.2</a> , <a href="#">NP_004546.1</a>
<b>RefSeq Size:</b>	4005 bp
<b>RefSeq ORF:</b>	3207 bp
<b>Locus ID:</b>	4775
<b>UniProt ID:</b>	<a href="#">Q12968</a>
<b>Cytogenetics:</b>	16q22.1
<b>Domains:</b>	RHD, IPT
<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 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 (2) contains an additional segment in the coding region, which causes a frameshift, compared to variant 1. The resulting isoform (2) 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>