

Product datasheet for **SC337242**

NFAT2 (NFATC1) (NM_001278672) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT2 (NFATC1) (NM_001278672) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFATC1
Synonyms:	NF-ATC; NF-ATc1.2; NFAT2; NFATc
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_001278672, the custom clone sequence may differ by one or more nucleotides

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ATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTAACCAGCGCGACGAGGGCG
CCGCCCGGGCCGCCCAGAACACTATGGCTATGCATCCTCCAACGTCAGCCCCGCCCTGCCGCTCCCCAC
GGCGCACTCCACCCTGCCGGCCCGTGCCACAACCTTCAGACCTCCACACCGGGCATCATCCCGCGGGCG
GATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCCGGGGCTACTTCCTCTCCTCCGGCCACA
CCAGGCCCTGATGGGGCCCTGCCCTGGAGAGTCTCGCATCGAGATAACCTCGTGCTTGGCCCTGTACCA
CAACAATAACCAGTTTTTCCACGATGTGGAGGTGGAAGACGTCCTCCCTAGCTCCAAACGGTCCCCCTCC
ACGGCCACGCTGAGTCTGCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCCTGAGCCCGGCCAGCAGCC
TGTCTCCCGGAGCTGCAACTCAGAGGCCTCCTCTACGAGTCCAACACTCGTACCCGTACGCGTCCCC
CCAGACGTCGCCATGGCAGTCTCCTGCGTGTCTCCAAGACCACGGACCCCGAGGAGGGCTTTCCCGCG
GGGCTGGGGCCCTGCACACTGCTGGGTTCCCGCGGCACTCCCCCTCCACCTCGCCCCGCCAGCGTCA
CTGAGGAGAGCTGGCTGGGTGCCGCTCCTCCAGACCCGCGTCCCCTTGAACAAGAGGAAGTACAGCCT
CAACGGCCGGCAGCCGCCCTACTCACCCACCCTCGCCACGCGCTCCCGCACGGCTCCCGCGGGGT
AGCGTGACCGACGACTCGTGGTTGGGCAACACCACCCAGTACACCAGCTCGGCCATCGTGCCGCCATCA
ACGCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTCCCTGTCAAGTCCCGCAAGACCACCT
GGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCCGGGAGGACCTGGGCAGCCCCCGCCCCCG
GCCGACTTCGCGCCCGAAGACTACTCCTCTTCCAGCACATCAGGAAGGGCGGCTTCTGCGACCAGTACC
TGGCGGTGCCGCAGCACCCCTACCAGTGGGCGAAGCCCAAGCCCTGTCCCCTACGTCTACATGAGCCC
GACCCTGCCCGCCTGGACTGGCAGTGGCCTCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAG
CCCAAGTCCCACCACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTGAAGGCGTCCGGCGGAG
GACACCCCATCGTGCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTCATTGGGAC
GGCGGACGACCGCTGCTGCGCCCGCACGCTTCTACCAGGTGCACCGCATCACAGGGAAGACCGTGTCC
ACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCTGGAGATCCCACTCCTGCCGGAGAACAGCA
TGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAAACTCCGACATTGAACTTCGGAAAGGAGA
GACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCGCGTTCACGTCCCGCAACCCAGCGGC
CGCACGCTGTCCCTGCAGGTGGCCTCAACCCCATCGAATGCTCCAGCGCTCAGCTCAGGAGTGCCTC
TGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCTGGGCGGGAAGAAGATGGTCTGTCTGGCCACAA
CTTCTGCAGGACTCCAAGGTCATTTCTGTGGAGAAAGCCCGAGATGGCCACCATGTCTGGGAGATGGAA
GCGAAAAGTACCGGGACCTGTGCAAGCCGAATTCTCTGGTGGTTGAGATCCCGCAATTCGGAATCAGA
GGATAACCAGCCCGTTCACGTAGTTTCTACGCTGCAACGGGAAGAGAAGCGAAGCCAGTACCAGCG
TTTCACTACCTCCCGCAACGTAATGAAATAATACGAAATGACCTCTCCAGCACGAGACCCACTCC
TAG
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001278672

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:

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_001278672.1](#), [NP_001265601.1](#)

RefSeq Size: 3967 bp

RefSeq ORF: 2103 bp

Locus ID: 4772

UniProt ID: [O95644](#)

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: 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]

Transcript Variant: This variant (8) has an alternate 5' terminal exon, which results in a different 5' UTR and 5' coding region, and lacks an in-frame exon in the 3' coding region, compared to variant 6. The encoded isoform (H) is shorter; it has a distinct N-terminus and lacks an internal segment in the C-terminal region, compared to isoform F.