

Product datasheet for **SC337280**

NFAT2 (NFATC1) (NM_001278670) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NFAT2 (NFATC1) (NM_001278670) 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_001278670, the custom clone sequence may differ by one or more nucleotides

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ATGCCAAGCACCAGCTTTCCAGTCCCTTCCAAGTTTCCACTTGGCCCTGCGGCTGCGGTCTTCGGGAGAG
GAGAAACTTTGGGGCCCGCCGCGCGCCGCGGACCATGAAGTCAGCGGAGGAAGAACAATATGGCTA
TGCATCTCCAAGTTCAGCCCGCCCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCGTGCCAC
AACCTTCAGACCTCCACACCGGGCATCATCCCGCGGGGATCACCCCTCGGGGTACGGAGCAGCTTTGG
ACGGTGGGCCCGCGGGCTACTTCTCTCTCCGGCCACACCAGGCTGATGGGGCCCTGCCCTGGAGAG
TCCTCGCATCGAGATAACCTCGTGCTTGGGCTGTACCACAACAATAACCAGTTTTTCCACGATGTGGAG
GTGGAAGACGTCTCCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTGAGTCTGCCAGCCTGGAGG
CCTACAGAGACCCTCGTGCCTGAGCCCGGCCAGCAGCTGTCTCCGGAGCTGCAACTCAGAGGCCTC
CTCCTACGAGTCCAATACTCGTACCCGTACGCGTCCCCCAGACGTGCCATGGCAGTCTCCCTGCGTG
TCTCCAAAGACCAGGACCCCGAGGAGGGCTTTCCCGCGGGCTGGGGCCCTGCACACTGCTGGGTCCC
CGCGGCACTCCCCCTCCACTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCGCTCCTC
CAGACCCGCGTCCCTTGAACAAGAGGAAGTACAGCCTCAACGCGCCGGCAGCCGCCCTACTCACCCAC
CACTCGCCACGCGTCCCCGCACGGCTCCCCGCGGGTCAAGCGTGACCGCAGACTCGTGGTTGGGCAACA
CCACCCAGTACACCAGCTCGGCCATCGTGGCCGCATCAACGCGCTGACCACCGACAGCAGCCTGGACCT
GGGAGATGGCGTCCCTGTCAAGTCCCGCAAGACCACCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTG
GAGCCCGTCGGGGAGGACCTGGGCAGCCCCCGCCCCGCGGACTTCGCGCCCGAAGACTACTCCTCTT
TCCAGCACATCAGGAAGGGCGGCTTCTGCGACCACTACCTGGCGGTGCCGAGCACCCTACCAGTGGGC
GAAGCCCAAGCCCTGTCCCCTACGTCTTACATGAGCCGACCTGCCCGCCCTGGACTGGCAGCTGCCG
TCCCCTCAGGCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCCACCACCGAGCCCACTACGAGA
CGGAGGGCAGCCGGGGGCGCTGAAGGCGTCGGCCGGAGGACACCCCATCGTGCAGCTGCATGGCTACTT
GGAGAATGAGCCGCTGATGCTGCAGTTTTTCAATTGGGACGGCGGACGACCGCTGCTGCGCCCGCAGCC
TTCTACCAGTGCACCGCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACA
CCAAAGTCTGGAGATCCACTCCTGCCGAGAACAGCATGCGAGCCGTCAATTGACTGTGCCGAATCCT
GAAACTCAGAACTCCGACATTGAATTCGAAAGGAGAGACGGACATCGGGAGGAAGAACAACACGGGTA
CGGCTGGTGTCCGCTTACGTCCCGCAACCCAGCGCCGCACGCTGTCCCTGCAGGTGGCCTCCAACC
CCATCGAATGCTCCAGCGCTCAGCTCAGGAGTGCCTCTGGTGGAGAAGCAGAGCAGGACAGCTATCC
GGTCTGGGCGGAAGAAGATGGTCTGTCTGGCCACAATTCCTGCAGGACTCCAAGGTCAATTTTCGTG
GAGAAAGCCCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAAGTACCCGGGACCTGTGCAAGCCGA
ATTCTCTGGTGGTTGAGATCCCGCATTTCGGAATCAGAGGATAACCAGCCCCGTTACAGTCAAGTTCTA
CGTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTTACCTACCTTCCCGCAACGTAATGAA
ATAATACGAAATGACCTCTCCAGCACGAGCACCCTAG
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001278670

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).

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| 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_001278670.1 , NP_001265599.1 |
| RefSeq Size: | 4341 bp |
| RefSeq ORF: | 2142 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: | <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 (7) lacks an in-frame exon in the 3' coding region, compared to variant 6. The encoded isoform (G) lacks an internal segment in the C-terminal region, compared to isoform F.</p> |