

Product datasheet for **SC332642**

NFAT1 (NFATC2) (NM_001258296) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT1 (NFATC2) (NM_001258296) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT1
Synonyms:	NFAT1; NFATP
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332642 representing NM_001258296.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGCCACTCGCCCGTGCCCGTCCGGCC
TCCCGCTCCTCATCGCCTGGTGCCAAGCGGAGGCATTGTCGCCGAGGCCTTGGTTGCCCTGCCGCC
GGAGCCTACCCAGCGCTCCCGAGCCCTCGCCGAGCCCTCATCTCACGTGGCACCCAGGACCAC
GGCTCCCGGCTGGGTACCCCCCTGTGGCTGGCTGCTGCCGTGATCATGGATGCCCTGAACAGCCTCGCC
ACGGACTCGCCTTGTGGGATCCCCCAAGATGTGGAAGACCAGCCCTGACCCCTCGCCGGTGTCTGCC
GCCCCATCCAAGGCCGGCTGCCTCGCCACATCTACCCGGCCGTGGAGTTCTGGGGCCCTGCGAGCAG
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CCTGCCATTCCCATCTGCAGCATCCAGTGACTGCATCCCTCCCTCCACTTGAGTGGCCGCTGTCCAGT
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CAGCCCAACATGCTTTTTTGTGAGATCCCTGAATATCGGAACAAGCATATCCGCACACCTGTAAGAGTG
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GTATTACCTGCGGGGTGACCATTAACAGGAGCAGAAGTGGACCAGACCTACTTGATGATGAGCTG
ATAGACACACACCTTAGCTGGATACAAAACATATTATGA
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001258296

Insert Size: 2109 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:

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_001258296.1](#)

RefSeq Size: 7016 bp

RefSeq ORF: 2109 bp

Locus ID: 4773

UniProt ID: [Q13469](#)

Cytogenetics: 20q13.2

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Axon guidance, B cell receptor signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway

MW: 76.7 kDa

Gene Summary: This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012]
Transcript Variant: This variant (7) uses an alternate splice junction at the 5' end of a coding exon and contains an alternate exon in the 3' end compared to variant 2, that causes a frameshift. The resulting isoform (F) is shorter at the N-terminus and has a shorter and distinct C-terminus compared to isoform C. Variants 5 and 7 both encode the same isoform (F). 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.