

Product datasheet for **SC332639**

NFAT1 (NFATC2) (NM_001258292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT1 (NFATC2) (NM_001258292) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT1
Synonyms:	NFAT1; NFATP
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332639 representing NM_001258292.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGCAGAGAGAGGCTGCGTTTCAGACTGGGGCACTGCCATCCCCTCCGCATCATGGGGTCTGTGGACCAA
GAAGAGCCGAATGCACATAAGGTCGCCAGCCCACCCTCCGGACCCGCATACCCCGATGATGTCCTGGAC
TATGGCCTCAAGCCATACAGCCCCCTTGTAGTCTCTCTGGCGAGCCCCCGGCCGATCGGAGAGCCG
GATAGGGTAGGGCCGAGAAGTTTCTGAGCGCGGCCAAGCCAGCAGGGGCTCGGGCTGAGCCCTCGG
ATCGAGATCACTCCGTCCACGAACTGATCCAGGCAAGTGGGGCCCTCCGCATGAGAGACGCGGGCTC
CTGGTGGAGCAGCCGCCCTGGCCGGGGTGGCCGCCAGCCGAGGTTACCCCTGCCCGTCCCGGGCTTC
GAGGGCTACCGCGAGCCGCTTTGCTTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGTTCATTTCTGAC
ACCTTCTCCCCCTACACCTCGCCCTGCGTCTCGCCCAATAACGGCGGGCCGACGACCTGTGTCCGAG
TTTCAAACATCCCTGCTCATTATCCCCCAGAACCTCGCAATAATGTCACCTCGAACCCAGCCTCGCC
GAGGACAGCTGCCTGGCCGCCACTCGCCCGTCCCGCTCGGCCCTCCGCTCCTCATCGCTGGTGGC
AAGCGGAGGCATTCGTGCGCCGAGGCTTGGTTGCCCTGCCGCCGGAGCCTCACCCAGCGCTCCCGG
AGCCCCCTCGCCGACCCCTCATCTCACGTGGCACCCAGGACCAGGCTCCCGGCTGGGTACCCCTCT
GTGGCTGGCTCTGCCGTGATCATGGATGCCCTGAACAGCCTCGCCACGGACTCGCCTTGTGGGATCCCC
CCCAAGATGTGGAAGACCAGCCCTGACCCCTCGCCGGTGTCTGCCGCCCATCCAAGGCCGGCTGCCT
CGCCACATCTACCCGGCCGTGGAGTTCTGGGGCCCTGCGAGCAGGGCGAGAGGAGAAACTCGGCTCCA
GAATCCATCCTGCTGGTCCGCCCACTTGGCCCAAGCCGCTGGTGCCTGCCATTCATCTGCAGCATC
CCAGTGACTGCATCCCTCCCTCCACTTGAGTGGCCGCTGTCCAGTCAGTCAGGCTTTACGAGCTGCGG
ATCGAGGTGCAGCCCAAGCCACATCACCCGGCCCACTATGAGACAGAAGGCAGCCGAGGGGCTGTCAA
GCTCCAAGTGGAGCCACCCTGTGGTTCAGTCCATGGCTACATGGAAAACAAGCCTCTGGGACTCAG
ATCTTCATTGGGACAGTGTAGGCGGATCCTTAAGCCGACGCCTTCTACCAGTGCACCGAATCACG
GGGAAAAGTGTACCCACCACCAGCTATGAGAAGATAGTGGGCAACACCAAGTCCCTGGAGATACCCCTG
GAGCCCAAAAACAACATGAGGGCAACCATCGACTGTGCGGGGATCTTGAAGCTTAGAAAACGCCGACATT
GAGCTGCGGAAAGGCGAGACGGACATTGGAAGAAAGAACACGCGGGTGGAGTGGTTTTCCGAGTTCAC
ATCCCAGAGTCCAGTGGCAGAATCGTCTCTTTACAGACTGCATCTAACCCCATCGAGTGTCCCAGCGA
TCTGCTCACGAGTGCCTGTTGAAAGACAAGACACAGACAGCTGCCTGGTCTATGGCGGCCAGCAA
ATGATCCTCACGGGCAGAACTTACATCCGAGTCCAAAGTTGTGTTTACTGAGAAGACCACAGATGGA
CAGCAAATTTGGGAGATGGAAGCCACGGTGATAAAGACAAGAGCCAGCCCAACATGCTTTTTTGTGAG
ATCCCTGAATATCGGAACAAGCATATCCGCACACCTGTAAAAGTGAATCTACGTCATCAATGGGAAG
AGAAAACGAAGTACGCTCAGCACTTTACTACCACCCAGTCCCAGCCATCAAGACGGAGCCACCGAT
GAATATGACCCCACTCTGATCTGCAGCCCCACCCATGGAGGCCTGGGGAGCCAGCCTTACTACCCCCAG
CACCCGATGGTGGCCGAGTCCCCCTCCTGCCTCGTGGCCACCATGGCTCCCTGCCAGCAGTTCGCGACG
GGGCTCTCATCCCTGACGCCCGCTACCAGCAACAGAACCAGCGGCCGTAATCTACCAGCGGAGCAAG
AGCCTGAGCCCCAGCCTGCTGGGCTATCAGCAGCCGGCCCTCATGGCCGCCCGCTGTCCCTTGGCGAC
GCTCACCGCTCTGTGCTGGTGCACGCCGGCTCCAGGGCCAGAGCTCAGCCCTGCTCCACCCCTCTCG
ACCAACCAGCAGGCTCGCTGTGATCCACTACTACCCACCAACCAGCAGCTGCGCTGGCGAAGCCAC
CAGGAGTTCAGCACATCATGTACTGCGAGAATTCGCACCAGGCACCACCAGACCTGGCCCGCCCCCG
GTCAGTCAAGGTCAGAGGCTGAGCCCGGTTCTACCCACAGTATTACAGCAGCAGAATGCCACGAGC
CAAAGAGCCGCCAAAACGGACCCCGGTGAGTACAAAAGGAAGTATTACCTGCGGGGTGACCAT
AAACAGGAGCAGAACTTGGACCAGCCTACTTGGATGATGTTAATGAAATTATCAGGAAGGAGTTTTCA
GGACCTCCTGCCAGAAATCAGACGTA
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_001258292
Insert Size: 2718 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_001258292.1
RefSeq Size:	7364 bp
RefSeq ORF:	2718 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:	98.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate first exon compared to variant 2. The resulting isoform (E) has a shorter and distinct N-terminus compared to isoform C. 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>