OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC125731

NFAT4 (NFATC3) (NM_173165) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT4 (NFATC3) (NM_173165) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT4
Synonyms:	NF-AT4c; NFAT4; NFATX
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_173165 edited
CTGAGGAGGAGCTGCAGCACCCTGGGCCACGCCGATGACTACTGCAAACTGTGGCGCCCA
CGACGAGCTCGACTTCAAACTCGTCTTTGGCGAGGACGGGGCGCCGGCGCCGCCGCCCCC
GGGCTCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGT
AGATCCACCTCCATCTACTTTAACCACACCACTTTGCTTACCACATCATGGATTACCGTC
TCACTCTTCTGTTTTGTCACCATCGTTTCAGCTCCAAAGTCACAAAAACTATGAAGGAAC
TTGTGAGATTCCTGAATCTAAATATAGCCCATTAGGTGGTCCCAAACCCTTTGAGTGCCC
AAGTATTCAAATTACATCTATCTCTCCTAACTGTCATCAAGAATTAGATGCACATGAAGA
TGACCTACAGATAAATGACCCAGAACGGGAATTTTTGGAAAGGCCTTCTAGAGATCATCT
CTATCTTCCTCTTGAGCCATCCTACCGGGAGTCTTCTCTTAGTCCTAGTCCTGCCAGCAG
CATCTCTTCTAGGAGTTGGTTCTCTGATGCATCTTCTTGTGAATCGCTTTCACATATTTA
TGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCCGATTTACCCTTGGATCCCCTCT
GACTTCTCCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAAACTTGGCATCAACAGTA
TGGACTTGGACACTCATTATCACCCAGGCAATCTCCTTGCCACTCTCCTAGATCCAGTGT
CACTGATGAGAATTGGCTGAGCCCCAGGCCAGCCTCAGGACCCTCATCAAGGCCCACATC
CCCCTGTGGGAAACGGAGGCACTCCAGTGCTGAAGTTTGTTATGCTGGGTCCCTTTCACC
CCATCACTCACCTGTTCCTTCACCTGGTCACTCCCCCAGGGGAAGTGTGACAGAAGATAC
GTGGCTCAATGCTTCTGTCCATGGTGGGTCAGGCCTTGGCCCTGCAGTTTTTCCATTTCA
GTACTGTGTAGAGACTGACATCCCTCTCAAAACAAGGAAAACTTCTGAAGATCAAGCTGC
CATACTACCAGGAAAATTAGAGCTGTGTTCAGATGACCAAGGGAGTTTATCACCAGCCCG
GGAGACTTCAATAGATGATGGCCTTGGATCTCAGTATCCTTTAAAGAAAGATTCATGTGG
TGATCAGTTTCTTTCAGTTCCTTCACCCTTTACCTGGAGCAAACCAAAGCCTGGCCACAC
CCCTATATTTCGCACATCTTCATTACCTCCACTAGACTGGCCTTTACCAGCTCATTTTGG
ACAATGTGAACTGAAAATAGAAGTGCAACCTAAAACTCATCATCGAGCCCATTATGAAAC
TGAAGGTAGCCGAGGGGCAGTAAAAGCATCTACTGGGGGACATCCTGTTGTGAAGCTCCT
GGGCTATAACGAAAAGCCAATAAATCTACAAATGTTTATTGGGACAGCAGATGATCGATA
TTTACGACCTCATGCATTTTACCAGGTGCATCGAATCACTGGGAAGACAGTCGCTACTGC

View online »

AAGCCAAGAGATAATAATTGCCAGTACAAAAGTTCTGGAAATTCCACTTCTTCCTGAAAA
TAATATGTCAGCCAGTATTGATTGTGCAGGTATTTTGAAACTCCGCAATTCAGATATAGA
ACTTCGAAAAGGAGAAACTGATATTGGCAGAAAGAATACTAGAGTACGACTTGTGTTTCG
TGTACACATCCCACAGCCCAGTGGAAAAGTCCTTTCTCTGCAGATAGCCTCTATACCCGT
TGAGTGCTCCCAGCGGTCTGCTCAAGAACTTCCTCATATTGAGAAGTACAGTATCAACAG
TTGTTCTGTAAATGGAGGTCATGAAATGGTTGTGACTGGATCTAATTTTCTTCCAGAATC
CAAAATCATTTTTCTTGAAAAAGGACAAGATGGACGACCTCAGTGGGAGGTAGAAGGGAA
GATAATCAGGGAAAAATGTCAAGGGGCTCACATTGTCCTTGAAGTTCCTCCATATCATAA
CCCAGCAGTTACAGCTGCAGTGCAGGTGCACTTTTATCTTTGCAATGGCAAGAGGAAAAA
AAGCCAGTCTCAACGTTTTACTTATACACCAGTTTTGATGAAGCAAGAACACAGAGAAGA
GATTGATTTGTCTTCAGTTCCATCTTTGCCTGTGCCTCATCCTGCTCAGACCCAGAGGCC
TTCCTCTGATTCAGGGTGTTCACATGACAGTGTACTGTCAGGACAGAGAAGTTTGATTTG
CTCCATCCCACAAACATATGCATCCATGGTGACCTCATCCCATCTGCCACAGTTGCAGTG
TAGAGATGAGAGTGTTAGTAAAGAACAGCATATGATTCCTTCTCCAATTGTACACCAGCC
TTTTCAAGTCACACCAACACCTCCTGTGGGGTCTTCCTATCAGCCTATGCAAACTAATGT
TGTGTACAATGGACCAACTTGTCTTCCTATTAATGCTGCCTCTAGTCAAGAATTTGATTC
AGTTTTGTTTCAGCAGGATGCAACTCTTTCTGGTTTAGTGAATCTTGGCTGTCAACCACT
GTCATCCATACCATTTCATTCTTCAAATTCAGGCTCAACAGGACATCTCTTAGCCCATAC
ACCTCATTCTGTGCATACCCTGCCTCATCTGCAATCAATGGGATATCATTGTTCAAATAC
AGGACAAAGATCTCTTTCTTCTCCAGTGGCTGACCAGATTACAGGTCAGCCTTCGTCTCA
GTTACAACCTATTACATATGGTCCTTCACATTCAGGGTCTGCTACAACAGCTTCCCCAGC
AGCTTCTCATCCCTTGGCTAGTTCACCGCTTTCTGGGCCACCATCTCCTCAGCTTCAGCC
TATGCCTTACCAATCTCCTAGCTCAGGAACTGCCTCATCACCGTCTCCAGCCACCAGAAT
GCATTCTGGACAGCACTCAACTCAAGCACAAAGTACGGGCCAGGGGGGTCTTTCTGCACC
TTCATCCTTAATATGTCACAGTTTGTGTGATCCAGCGTCATTTCCACCTGATGGGGCAAC
TGTGAGCATTAAACCTGAACCAGAAGATCGAGAGCCTAACTTTGCAACCATTGGTCTGCA
GGACATCACTTTAGATGATGTGAACGAGATAATTGGGAGAGACATGTCCCAGATTTCTGT
TTCCCAAGGAGCAGGGGTGAGCAGGCAGGCTCCCCTCCCGAGTCCTGAGTCCCTGGATTT
AGGAAGATCTGATGGGCTCTAACAGTGCTTACTGCAGCCTTGTGTCCACCACCAACTTCT
CAGCATGTTTCTCTCCTTGGACCTTGGGTTTCCAACTCTGCAGCCTTCAGGTCTGGGGCC
AGGAGTGGGACCCACCATTTGTGGGGAAAGTAGCATTCCTCCACCTCAGGCCTTGGGTAG
ATTTGGCAAAAGAACAGGAGCAGCATAGGCTGTTTGAGCTTTGGGGAAATGAACTTTGCT
TTTTATATTTAACTAGGATACTTTTATATGATGGGTGCTTTGAGTGTGAATGCAGCAGGC
TCTCTTGTTTCCGAGGTGCTGCTTTTGCAGGTGACCTGGTTACTTAGCTAGGATTGGTGA
TTTGTACTGCTTTATGGTCATTTGAAGGGCCCTTTAGTTTTTATGATAATTTTTAAAATA
GGAACTTTTGATAAGACCTTCTAGAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173165 unedited
NGGGGATCGGCATTTGTAATACGACTTACTATAGGCGGCCGCGTAATTCGCACGAGGCTG
AGGAGGAGCTGCAGCACCCTGGGCCACGCCGATGACTACTGCAAACTGTGGCGCCCACGA
CGAGCTCGACTTCAAACTCGTCTTTGGCGAGGACGGGGCGCCGGCGCCGCCGCCCCCGGG
CTCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGA
TCCACCTCCATCTACTTTAACCACACCACTTTGCTTACCACATCATGGATTACCGTCTCA
CTCTTCTGTTTTGTCACCATCGTTTCAGCTCCAAAGTCACAAAAACTATGAAGGAACTTG
TGAGATTCCTGAATCTAAATATAGCCCATTAGGTGGTCCCAAACCCTTTGAGTGCCCAAG
TATTCAAATTACATCTATCTCTCCTAACTGTCATCAAGAATTAGATGCACATGAAGATGA
CCTACAGATAAATGACCCAGAACGGGAATTTTTGGAAAGGCCTTCTAGAGATCATCTCTA
TCTTCCTCTTGAGCCATCCTACCGGGAGTCTTCTCTTAGTCCTAGTCCTGCCAGCAGCAT
CTCTTCTAGGAGTTGGTTCTCTGATGCATCTTCTTGTGAATCGCTTTCACATATTTATGA
TGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCCGATTTACCCTTGGATCCCCTCTGAC
TTCTCCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAAACTGGCATCCACAGTATGGA
CTTGGACACTCATTATCACCCAGGCAATCTCCTTGCCCCTCTCCTAGATCCCGTGTCACT
GATGAGAATTGGCTGAGCCCCCAGCCAGCCTCAGGACCCTCATTATGCCCCAC

Restriction Sites:	Please inquire
ACCN:	NM_173165
Insert Size:	4000 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_173165.1, NP_775188.1
RefSeq Size:	3901 bp
RefSeq ORF:	3228 bp
Locus ID:	4775
UniProt ID:	Q12968
Cytogenetics:	16q22.1
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 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]
Transcript Variant: This variant (1) encodes the longest 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.