

Product datasheet for **RC235016**

NFAT1 (NFATC2) (NM_001258292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT1 (NFATC2) (NM_001258292) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFAT1
Synonyms:	NFAT1; NFATP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC235016 representing NM_001258292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGAGAGAGGCTGCGTTTCAGACTGGGGCACTGCCATCCCCTCCGCATCATGGGGTCTGTGGACCAAG
 AAGAGCCGAATGCACATAAGGTCGCCAGCCACCCCTCCGACCCGCATACCCCGATGATGTCCTGGACTA
 TGGCCTCAAGCCATACAGCCCCCTTGTAGTCTCTTGGCGAGCCCCCGGCCGATTTCGGAGAGCCGGAT
 AGGGTAGGGCCGAGAAGTTTCTGAGCGCGCCAAAGCCAGAGGGGCTCGGGCCTGAGCCCTCGGATCG
 AGATCACTCCGTCCACGAAGTATCCAGGCAGTGGGGCCCTCCGCATGAGAGACGCGGGCCTCCTGGT
 GGAGCAGCCGCCCTGGCCGGGTGGCCGCCAGCCGAGGTTACCCCTGCCCGTCCCGGCTTCGAGGGC
 TACCGCGAGCCGCTTTGCTTGGCCCCGTAGCAGCGGCTCCTCTGCCAGCTTCATTTCTGACACCTTCT
 CCCCCTACACCTGCCCTGCGTCTGCCAATAACGGCGGGCCCGACGACCTGTGTCCGAGTTTCAAAA
 CATCCCTGCTCATTATCCCCAGAACCTCGCCAATAATGTCACCTCGAACCCAGCCTCGCCGAGGACAGC
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 ATTCGTGCGCCGAGGCCTTGGTTGCCCTGCCGCCGGAGCCTCACCCAGCGCTCCCGGAGCCCTCGCC
 GCAGCCCTCATCTCACGTGGCACCCAGGACCAGGCTCCCGGCTGGGTACCCCTGTGGCTGGCTCT
 GCCGTGATCATGGATGCCCTGAACAGCCTCGCCACGGACTCGCCTGTGGGATCCCCCAAGATGTGGA
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 GTTCCGCCCACTTGCCCCAAGCCGCTGGTGCCTGCCATTCCCATCTGCAGCATCCCACTGACTGCATCCC
 TCCCTCCACTTGAGTGGCCGCTGTCAGTCAGTCAGGCTTTACGAGCTGCGGATCGAGGTGCAGCCAA
 GCCACATCACCGGCCCACTATGAGACAGAAGGCAGCCGAGGGGCTGTCAAAGCTCCAAGTGGAGGCCAC
 CCTGTGGTTTACGCTCCATGGCTACATGGAACAAGCCTCTGGGACTTCAGATCTTCATTGGGACAGCTG
 ATGAGCGGATCCTTAAGCCGCACGCCTTACCAGGTGCACCGAATCACGGGAAAACTGTCAACCCAC
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 ACATTGGAAGAAAGAACACGCGGTGAGACTGGTTTTCCGAGTTCACATCCAGAGTCCAGTGGCAGAAT
 CGTCTCTTACAGACTGCATCTAACCCCATCGAGTGTCCAGCGATCTGCTCACGAGCTGCCATGGTT
 GAAAGACAAGACACAGACAGCTGCTGGTCTATGGCGCCAGCAATGATCCTCACGGGGCAGAACTTTA
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 GGTGGATAAGGACAAGAGCCAGCCCAACATGCTTTTTGTTGAGATCCCTGAATATCGGAACAAGCATATC
 CGCACACCTGTAAAAGTGAATTCTACGTCAATGGAAGAGAAAAACGAAGTCAGCCTCAGCACTTTA
 CCTACCACCCAGTCCCAGCCATCAAGACGGAGCCACGGATGAATATGACCCCACTCTGATCTGCAGCCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235016 representing NM_001258292
 Red=Cloning site Green=Tags(s)

MQREAAFRLGHCHPLRIMGSDQEEPNAHKVASPPSGPAYPDDVLDYGLKPYSPLASLSEPPGRFGEPD
 RVGPQKFLSAAKPAGASGLSPRIEITPSHEL IQAVGPLMRDAGLLVEQPPLAGVAASPRFTLPVPGFEG
 YREPLCLSPASSGSSASFISDTFSPYTPSPCVSPNNGPDDLCPQFQNIPIAHYSPRTSPIMSPRTSLAEDS
 CLGRHSPVPRPASRSSSPGAKRRHSCEALVALPPGASPQRSRSPSPQSSHVAPQDHGSPAGYPPVAGS
 AVIMDALNSLATDSPCGIPPKMWTSPDPSVSAAPSKAGLPRHIYPAVEFLGPCEQGERRNSAPESILL
 VPPTWPKPLVPAIPICSIPTVATSLPPEWPLSSQSGSYELRIEVQPKPHHRAHYETEGSRGAVKAPTGGH
 PVVQLHGMYENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVLEIPLEPKNNMR
 ATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHIPESGRIVSLQTASNPIECSQRSAHELMV
 ERQDTSCLVYGGQMMILTGQNF TSEKVVFTTEKTTDGGQIWEMEATVDKDKSQPNMLFVEIPEYRNKHI
 RTPVKVNFYVINGKRKRSQPQHF TYHPVPAIKTEPTDEYDPTLICSPTHGGLGSQPYYPQHMPVAESPSC
 LVATMAPCQQFRTGLSSPDARYQQNPAAVLYQRSKSLSPSLLGYQPALMAAPLSLADAHRSVL VHAGS
 QQQSSALLHPSPTNQQASPVIIHYSPTNQQLRCSHQEFQHIMYCENFAPGTTTRPGPPPVSQGQRLSPGSY
 PTVIQQNATSQRAAKNGPPVSDQKEVLPAGVTIKQEQLDQTYLDDVNEIIRKEFGSPPARNQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

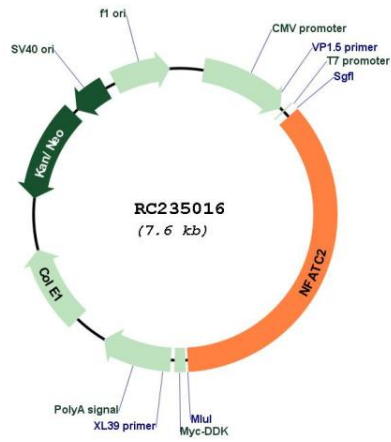
Cloning Scheme:



ACCN: NM_001258292

ORF Size:	2715 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001258292.2
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:	98.5 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]

Product images:



Circular map for RC235016