

Product datasheet for **RG238423**

NFAT2 (NFATC1) (NM_001278673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT2 (NFATC1) (NM_001278673) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFAT2
Synonyms:	NF-ATC; NF-ATc1.2; NFAT2; NFATc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238423 representing NM_001278673. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCAGCTTTTCATTGGGACGGCGGACGACCGCCTGCTGCGCCCGCACGCTTCTACCAGGTGCAC
CGCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCTGGAG
ATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTATTGACTGTGCCGGAATCTGAAACTCAGAAAC
TCCGACATTGAACTTCGAAAGGAGAGACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTC
CGGTTACGTCCCGCAACCCAGCGGCCGACGCTGTCCCTGCAGGTGGCTCCAACCCCATCGAATGC
TCCAGCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGGC
GGGAAGAAGATGGTCTGTCTGGCCACAATTCCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCC
CCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAACGACCGGACCTGTGCAAGCCGAATTCCTG
GTGGTTGAGATCCCGCCATTTCCGAATCAGAGGATAACCAGCCCCGTTACGTCAGTTTCTACGTCCTGC
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ACAGAACCCTGATGATTATGAGCCTGCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCTCTC
CCAAGACCATACTACAGCCAGCAGCTCGCATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTC
CCGCCCTGTCCGACAGAGAAGCACCTGATGCCAGCGGCCCTGGCGTGAGCCCCAAGCTCCACGACCTT
TCTCCCGTGCCTACACCAAGGGGTTGCCAGCCCGGGCCACTGTCACCTCGGACTCCCGCAGCCGGCC
GGAGAGGCCCCCGCTCCAGGACGTGCCAGGCCAGTGCCACGCACCCCGCTCGCCCGGACAGCCA
CCCCCGCCCTGTGCCACAGCAGGTGAGTGCCCTCCAAGCAGTAGCTGCCCCCTGGTCTCGAACAC
TCGCTCTGCCACAGCAGCCCTCTCCTCACTCCCGCTGCCACCAAGAGCCGACCTGCCTGCAGCCC
TGCAGCCAGCGTGCCCGCCCGCACGGCCCGCCGACGACCTGCCGTCCACGGTCCGACGGGACGAG
TCTCCGACTGCCGGCCACGGCTGCTGCCAGAGGTGCATGAGGACGGTAGTCTAATTTGGCCCTATT
CCTGTAACGGTCAAGCGAGACCTGAAGAGTTGGACCAGTTGTACCTGGATGACGTAATGAAATAATA
CGAAATGACCTTCCAGCAGGACCCACTCC
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238423
 Blue=ORF Red=Cloning site Green=Tag(s)

MLQLFIGTADDRLLRPHAFYQVHRITGKTVSTTSHEAILSNTKVLEIPLLPENSMRAVIDCAGILKLRN
 SDIELRKGETDIGRKNTRVRLVFRVHVHPQPSGRTL SLQVSNPIECSQRS AQELPLVEKQSTDSYPVVG
 GKMKMLSGHNF LQDSKVI FVEKAPDGHVWEMEAKTDRDLCKPNSLVVEIPFRNQ RITSPVHVSFYVC
 NGKRKRSQYQRFTYLPANVPIIKTEPTDDYEPAPTCGPV SQGLSPLPRPYYSQQLAMPDPSSCLVAGF
 PPCPQRSTLMPAAPGVSPKLHDLSPAAYTKGVASPGHCHLGLPQPAGEAPAVQDVPRPVATHPGSPGQP
 PPALLPQQVSAPPSSCPPGLEHSLCPSSPSPPLPATQEPTCLQPCSPACPPATGRPQHLPSTVRRDE
 SPTAGPRLLEPVHEDGSPNLAPIPVTVKREPEELDQLYLDVNEIIRNDLSSTSTHS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278673

ORF Size: 1413 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](#)

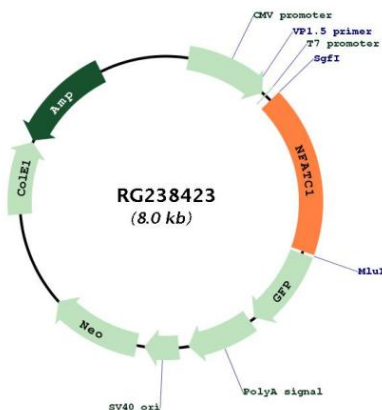
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001278673.1](#), [NP_001265602.1](#)

RefSeq Size:	3558 bp
RefSeq ORF:	1416 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
MW:	51.6 kDa
Gene Summary:	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]

Product images:



Circular map for RG238423