

Product datasheet for **RG222417**

NFAT2 (NFATC1) (NM_172388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT2 (NFATC1) (NM_172388) 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:	>RG222417 representing NM_172388 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCAGCTTTTCATTGGGACGGCGGACGACCGCTGCTGCGCCGCACGCCTTCTACCAGGTGCACC
 GCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCCTGGAGAT
 CCCACTCCTGCCGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAACTCC
 GACATTGAACTTCGAAAGGAGAGACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCCGCG
 TTCACGTCCCGCAACCCAGCGGCCGCACGCTGTCCCTGCAGGTGGCCTCCAACCCCATCGAATGCTCCCA
 GCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGACGACGACGATATCCGGTCGTGGGCGGGAAG
 AAGATGGTCCTGTCTGGCCACAACCTTCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCCCCAGATG
 GCCACCATGTCTGGGAGATGGAAGCGAAAACCTGACCGGGACCTGTGCAAGCCGAATTCTCTGGTGGTTGA
 GATCCCGCCATTCGGAATCAGAGGATAACCAGCCCCGTTACGTCAGTTTCTACGTCTGCAACGGGAAG
 AGAAAGCGAAGCCAGTACCAGCGTTTCACCTACCTCCCGCCAACGTTCCAATTATAAAACAGAACCCA
 CTGATGATTATGAGCCTGCTCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCCTCTCCAAGACCATA
 CTACAGCCAGCAGCTCGCGATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCG
 CAGAGAAGCACCTGATGCCAGCGGCCCTGGCGTGAGCCCCAAGCTCCACGACCTTTCTCCGCTGCCT
 ACACCAAGGGCGTTGCCAGCCCGGCCACTGTACCTCGGACTCCCGCAGCCGGCCGAGAGGCCCCCGC
 CGTCCAGGACGTGCCAGGCCAGTGCCACGCACCCCGGCTCGCCCGGCGAGCCACCCCGGCCCTGCTG
 CCACAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222417 representing NM_172388
 Red=Cloning site Green=Tags(s)

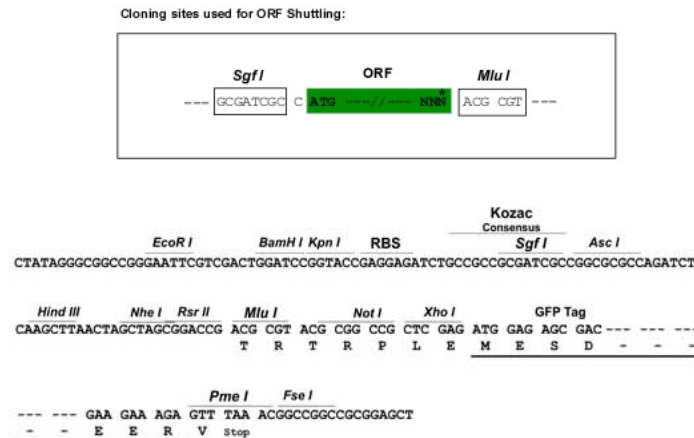
MLQLFIGTADDRLLRPHAFYQVHRITGKTVSTTSHEAILSNTKVL EIPLLPENSMRAVIDCAGILKLRNS
 DIELRKGETDIGRKNTRVRLVFRVHVPQPSGRTL SLQVASNPIECSQRSAQELPLVEKQSTDSYPVVGK
 KMWLSGHNFLQDSKVI FVEKAPDGHVWEMEAKTDRDLCKPNSL VVEIPFRNQRTITSPVHVSFYVCNGK
 RKRSQYQRFTYLPANVPIIKTEPTDDYEPAPTCGPVSQGLSPLPRPYSSQLAMPDPSSCLVAGFPCCP
 QRSTLMPAAPGVSPKLHDLSPAAYTKGVASPGHCHLGLPQPAGEAPAVQDVPRPVATHPGSPGPPPPALL
 PQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172388

ORF Size: 1059 bp

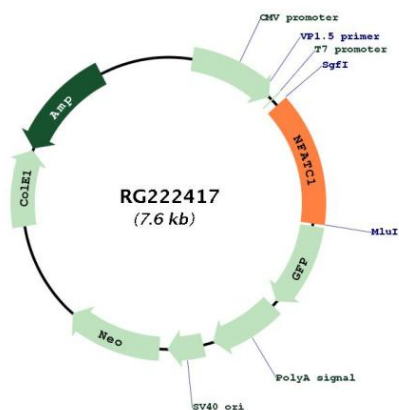
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_172388.3</u>
RefSeq Size:	3671 bp
RefSeq ORF:	1062 bp
Locus ID:	4772
UniProt ID:	<u>O95644</u>
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
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG222417