

## Product datasheet for **RC238423**

### 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:               | Myc-DDK  |
| Symbol:            | NFATC1   |
| Synonyms:          | NF-ATC; NF-ATc1.2; NFAT2; NFATc                      |
| Vector:            | pCMV6-Entry (PS100001)                               |
| E. coli Selection: | Kanamycin (25 ug/mL)                                 |
| Cell Selection:    | Neomycin   |



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**ORF Nucleotide Sequence:**

>RC238423 representing NM\_001278673  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCAGCTTTTCATTGGGACGGCGGACACCCTGCTGCGCCCGCACGCTTCTACCAGTGCACC  
 GCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCTGGAGAT  
 CCCACTCTGCCGGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAACTCC  
 GACATTGAACTTCGAAAAGGAGAGACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTCCGCG  
 TTCACGTCCCGAACCCAGCGGCCGACGCTGTCCCTGCAGGTGGCTCCAACCCCATCGAATGCTCCCA  
 GCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGCGGGGAA  
 AAGATGGTCTGTCTGGCCACAACCTTCTGCAGGACTCCAAGTCAATTTTCGTGGAGAAAGCCAGATG  
 GCCACCATGTCTGGGAGATGGAAGCGAAAACCTGACCGGGACCTGTGCAAGCCGAATTCCTGGTGGTTGA  
 GATCCCGCATTTCGGAATCAGAGGATAACCAGCCCCGTTACGTCAGTTTCTACGTCGCAACGGGAAG  
 AGAAAGCGAAGCCAGTACCAGCGTTTACCTACCTTCCCGCCAACGTTCCAATTATAAAAACAGAACCCA  
 CTGATGATTATGAGCCTGCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCCTCTCCAAGACCATA  
 CTACAGCCAGCAGCTCGCGATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCG  
 CAGAGAAGCACCTGATGCCAGCGGCCCTGGCGTGAGCCCCAAGCTCCACGACCTTCTCCCGTGCCT  
 ACACCAAGGGCGTTGCCAGCCGGGCCACTGTCACCTCGGACTCCCGCAGCCGGCCGGAGAGGCCCCCGC  
 CGTCCAGGACGTGCCAGGCCAGTGGCCACGACCCCGGCTCGCCCGGCAGCCACCCCGGCCCTGCTG  
 CCACAGCAGGTGAGTGCCTCCAAGCAGTAGCTGCCCCCTGGTCTCGAACACTCGCTGCCCCAGCA  
 GCCCTCTCTCACTCCCGCTGCCACCAAGAGCCGACTGCCTGCAGCCCTGCAGCCCTGCAGCCAGCTGCC  
 GCCCGCCACGGGCGCCCGCAGCACCTGCCGTCCACGGTCCGCAGGGACGAGTCTCCGACTGCCGGCCA  
 CGGCTGCTGCCAGAGGTGCATGAGGACGGTAGTCTAATTTGGCCCTATTCTGTAAACGGTCAAGCGAG  
 AGCCTGAAGAGTTGACCAGTTGTACTGGATGACGTAATGAAATAATACGAAATGACCTCTCCAGCAC  
 GAGCACCCACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238423 representing NM\_001278673  
 Red=Cloning site Green=Tags(s)

MLQLFIGTADDRLLRPHAFYQVHRITGKTVSTTSHEAILSNTKVLEIPLLPENSMRAVIDCAGILKLRNS  
 DIELRKGETDIGRKNTRVRLVFRVHVPQPSGRTLSQLVANSPIECSQRSQELPLVEKQSTDSYPVVGK  
 KMYLSGHNFLQDSKIVIFVEKAPDGHVWEMEAKTDRDLCKPNSLVVEIPFRNQRTISPVHVSFYVCNGK  
 RKRSQYQRTYLPANVPIIKTEPTDDYEPAPTCGPVSQLSPLRPYYSQQLAMPDPSSCLVAGFPFPCP  
 QRSTLMPAAPGVSPKLHDLSPAAYTKGVASPGHCHLGLPQPAGEAPAVQDVPRPVATHPGSPGQPPALL  
 PQQVSAPPSSSPGLEHSLCPSSPSPPLPPATQEPTCLQPCSPACPPATGRPQHL PSTVRRDESPTAGP  
 RLLPEVHEDGSPNLAPIPVTVKREPEELDQLYLDVNEIIRNDLSSTSTHS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <u>NM_001278673.1, NP_001265602.1</u>   |
| <b>RefSeq Size:</b>           | 3558 bp   |
| <b>RefSeq ORF:</b>            | 1416 bp   |
| <b>Locus ID:</b>              | 4772  |
| <b>UniProt ID:</b>            | <u>O95644</u>   |
| <b>Cytogenetics:</b>          | 18q23   |
| <b>Protein Families:</b>      | Druggable Genome, Transcription Factors   |
| <b>Protein Pathways:</b>      | Axon guidance, B cell receptor signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway   |
| <b>MW:</b>                    | 51.6 kDa  |
| <b>Gene Summary:</b>          | <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> |