

## Product datasheet for **MR231363**

### **Nfatc2 (NM\_001291168) Mouse Tagged ORF Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                              |
| Product Name:      | Nfatc2 (NM_001291168) Mouse Tagged ORF Clone     |
| Tag:               | Myc-DDK  |
| Symbol:            | Nfatc2   |
| Synonyms:          | AI607462; NF-ATc2; NF-ATp; NFAT1; NFAT1-D; Nfatp |
| Vector:            | pCMV6-Entry (PS100001)                           |
| E. coli Selection: | Kanamycin (25 ug/mL)                             |
| Cell Selection:    | Neomycin   |



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**ORF Nucleotide Sequence:**

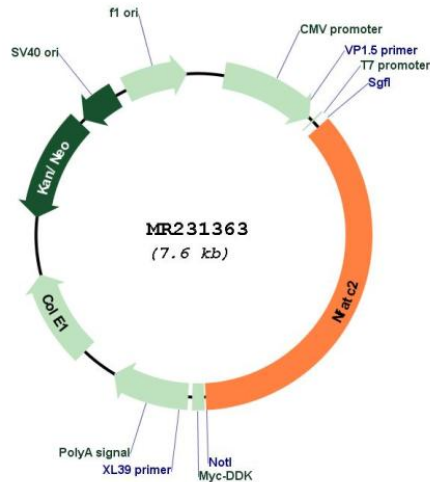
>MR231363 representing NM\_001291168  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGCGCCCGCATTGCGCAGGCCGGGCCCCGCCAGCCCTCCGCACCATGGGGTCTCGGACCGAG  
 AAGAACCATCGCACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTA  
 TGGCCTCAAGCCATGCAACCCCTTGCAGTCTCTGCGAGGCCCTGGCCGGTTCGGAGAGCCGGAT  
 AGTATAGGGTTCAGAATTTCTGAGCCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCG  
 AGATCACTCCATCCCACGAACTGATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCTGTCCCC  
 CGAGCAGCCGGCCCTGGCCCTGGCCGGCGTGGCCGCCAGCCGAGGTTACACTGCCCGTCCCGGCTAC  
 GAGGGCTACCGCAGCCGCTTGTCTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGCTTCATTTCTGACA  
 CCTTCTCCCCCTACACCTCGCCCTGCGTCTCACCAATAACGCCGGGCCGAGCAGCTGTGTCCCCAGTT  
 TCAAAACATCCCTGCTCATTATCCCCCAGAACCTCTCCAATAATGTACCTCGAACCAGCTCGCCGAG  
 GACAGCTGCCTGGGCCGACACTGCCCGTGCCTCGCCGATCCCGCTCCTCCTCACCCGGTGCCAAGC  
 GGAGGCATTCTGTCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCGAGCGTCCCGGAGCCC  
 CTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGCATCCCCGCTGGGTACCCCCACGGCC  
 GGCTCTGCTGTTCTATGGATGCCCTCAACACCCTGGCCACCGACTCGCCCTGCGGGATCCCCTCCAAGA  
 TATGGAAGACCAGTCTGACCCGACGCTGTGTCCACCCTCCGTCCAAGGCTGGCTGGCCCGCCACAT  
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 CAGCAGATGAGAGGATCCTTAAGCCGCACGCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCA  
 CACCACGAGTATGAGAAGATCGTAGGCAACACCAAGGTCCTGGAGATCCCCCTGGAGCCAAAGAACAAC  
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 GCGCATCGTCCCTGCAGGCTGCGTCCAACCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCC  
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 ACTTCACAGCGGAGTCCAAGGTTGTGTTTATGGAGAAGACTACAGATGGGAGCAGATTTGGGAGATGGA  
 AGCTACGGTGGATAAAGACAAGAGCCAGCCTAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAG  
 CACATCCGCGTGCCCGTGAAGTCAACTTCTACGTCATCAACGGAAAGAGGAAACGAAGTCAAGCCACAGC  
 ACTTTACCTACCACCCAGTCCCTGCCATCAAGACAGAGCCAGCGATGAGTATGAACCATCTTTGATCTG  
 CAGCCCCGCCATGGAGGCTGGGGAGCCAGCCATATTACCCACAGCACCAATGCTGGCCGAGTCCCCC  
 TCCTGCCTTGTGGCTACCATGGCCCCCTGCCAACAGTTCCGCTCGGGGCTCTCATCCCCGATGCTCGT  
 ACCAACAGCAGAGCCCCGAGCTGCCCTCTACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGTGGGCTA  
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 GGTTCTCAGGGGCAGGGCAGGGCTCCACCCTGCCACACACATCCTCGGCCAGCCAGCAGGCTCACCCG  
 TGATCCACTACTACCCACCAACCAGCAGCTTCGCGGTGGGGTCAACAGGATTCAGCATATCATGTA  
 CTGTGAAAATTCGGCCCCAGCTCTGCCAGGCTGGCCCGCTCCATCAACCAAGGTCAGAGGCTGAGC  
 CCGGGCGCTACCCACAGTCAACAAACAGACTGCCCGAGCCAAAGAGTGCACAAAACGGACCCA  
 GTGACCAGAAGGAAGCTCTGCCACGGAGTGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCT  
 GGATGACGTTAATGAAATCATCAGGAAGGATTTTCAGGACCTCCCTCCCGAAATCAGACC

**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA**  
**TTACAAGGATGACGACGATAAGGTTTAA**



**Plasmid Map:**


**ACCN:** NM\_001291168

**ORF Size:** 2721 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:**

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\\_001291168.1](#), [NP\\_001278097.1](#)

**RefSeq Size:** 6644 bp

**RefSeq ORF:** 2724 bp

**Locus ID:** 18019

**Cytogenetics:** 2 88.91 cM

**MW:** 98.4 kDa

**Gene Summary:**

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway.[UniProtKB/Swiss-Prot Function]