

## Product datasheet for **MR230083**

### **Nfatc2 (NM\_001291171) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291171) 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:**

>MR230083 representing NM\_001291171  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGAAACAAGCCTCTGGGCTTCAGATCTTCATTGGGACAGCAGATGAGAGGATCCTTAAGCCGACG  
 CCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTACCACCACGAGCTATGAGAAGATCGTAGGCAA  
 CACCAAGTCTGGAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCACCATCGACTGTGCAGGCATC  
 CTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTG  
 TGCGCCTGGTGTCCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAA  
 CCCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCCATGGTGGAGAGACAAGACATGGACAGCTGC  
 CTGGTCTACGGGGCCAGCAGATGATCCTCACGGGCCAGAACTTACAGCGGAGTCCAAGTTGTGTTCA  
 TGGAGAAGACTACAGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCC  
 TAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTGCCCGTGAAAGTCAACTTC  
 TACGTCATCAACGGAAAGAGGAAACGAAGTACGCCACAGCACTTACCTACCACCAGTCCCTGCCATCA  
 AGACAGAGCCCAGCGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCCATGGAGGCCTGGGGAGCCA  
 GCCATATTACCACAGCACCCAAATGCTGGCCGAGTCCCCCTCCTGCCTTGTGGCTACCATGGCCCCCTGC  
 CAACAGTTCGCGTCCGGGCTCTCATCCCCGATGCTCGTACCAACAGCAGAGCCCCGCAGCTGCCCTCT  
 ACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGCTGGGCTACCAGCAGCCGTCCTCCTGGCAGCACCCCTT  
 GGGTCTGGCTGATGCCACCCTCTGTGCTGGTGCATGCTGGTTCTCAGGGGCAGGGGCAGGGCTCCACC  
 CTGCCACACATCCTCGGCCAGCCAGCAGGCCCTCACCCGTGATCCACTACTACCCACCAACCAGCAGC  
 TTGCGCGTGGGGTACCAGGATTCAGCATATCATGTACTGTGAAAACCTTCGGCCCCAGCTCTGCCAG  
 GCCTGGCCCCCTCCCATCAACCAAGGTGAGAGGCTGAGCCCGGGCCCTACCCACAGTCATCCAACAA  
 CAGACTGCCCCGAGCCAAAGAGCTGCCAAAAACGGACCCAGTGACCAGAAGGAACTCTGCCACGGGAG  
 TGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCTGGATGACGAGTTGATAGACACACACCTTAG  
 CTGGATACAAAACATATTA

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230083 representing NM\_001291171  
 Red=Cloning site Green=Tags(s)

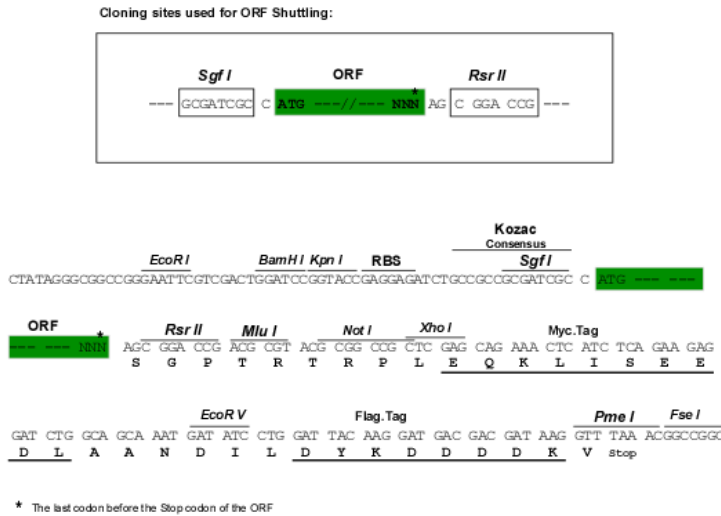
MENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTTSEKIVGNTKVLEIPLKPNMNRATIDCAGI  
 LKLRNADIELRKGETDIGRKNTRVRLVFRVHVPEPSGRIVSLQAASNPIECSQRSHELPMVERQDMDS  
 LVYGGQMIILTGQNFATAESKVVMEKTTDGGQIWEMEATVDKDKSQPNMLFVEIPEYRNKHIRVPKVN  
 YVINGKRKRSQPQHFTYHPVPAIKTEPSDEYEPSLICSPAHGGLGSQPYYPQHPLAESPSCLVATMAPC  
 QQFRSGLSSPDARYQQQSPAALYQRSKSLSPGLLGYQQPSLLAAPLGLADAHRSVLVHAGSQGQGGST  
 LPHTSSASQASPVIIHYSPTNQQLRGGGHQEFQHIMYCENFGPSSARPGPPPINQGQRLSPGAYPTVIQQ  
 QTAPSQRAAKNGPSDQKEALPTGVTVKQEQNLDTYLDDELIDTHLSWIQNIL

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

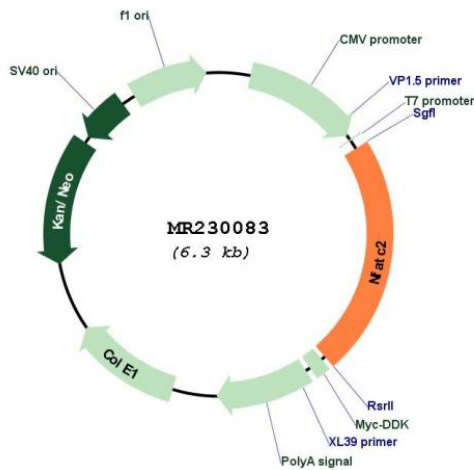
**Restriction Sites:**

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291171

ORF Size: 1419 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\_001291171.1, NP\_001278100.1

**RefSeq Size:** 5694 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 18019

**Cytogenetics:** 2 88.91 cM

**MW:** 52.8 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]