

## Product datasheet for **MR229977**

### **Nfatc2 (NM\_001291179) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291179) 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:**

>MR229977 representing NM\_001291179  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGACACTCGCCCGTGCCCGTCCGGCAT  
 CCCGCTCTCCTCACCCGGTGCCAAGCGGAGGCATTCTGTGCGCAGAGGCTTTGGTTGCTCTGCCCCG  
 AGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGC  
 ATCCCCGCTGGGTACCCCCACGCGCGGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCG  
 ACTCGCCTGCGGGATCCCTCCAAGATATGGAAGACCAGTCTGACCCGACGCCTGTGTCCACCCTCC  
 GTCCAAGGCTGGCCTGGCCCGCCACATCTACCCTACTGTGGAGTCTCTGGGGCCATGTGAGCAGGAGGAG  
 AGGAGGAATTCGCTCCAGATCCATCTGCTGGTACCACCTACTTGGCCCAAGCAGTTGGTGCCGGCCA  
 TTCCCATCTGCAGCATCCCTGTGACTGCATCCCTCCCACCACTCGAGTGGCCACTCTCCAATCAGTCGGG  
 CTCCTATGAGCTACGGATTGAGGTCCAACCCAAGCCCCATCACCGGGCCCACTATGAGACGGAGGCGAGC  
 CGTGGCGCTGTCAAAGCCCCAACAGGAGGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGC  
 CTCTGGGGCTTACAGATCTTATTGGGACAGCAGATGAGAGGATCCTTAAGCCGCACGCCTTCTACCAAGT  
 ACACAGGATCACTGGGAAAACGGTCAACCACCAGAGCTATGAGAAGATCGTAGGCAACACCAAGTCTCTG  
 GAGATCCCCCTGGAGCCAAAGAACAATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGTCCGAA  
 ACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGT  
 CCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAACCCCATCGAGTGC  
 TCTCAGCGCTTGCCACGAGCTGCCCATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGG  
 GCCAGCAGATGATCCTCACGGGCCAGAACTTACAGCGGAGTCCAAGTTGTGTTTCATGGAGAAGACTAC  
 AGGACCTGCAGGACCTGTGAGACTCGGCCTTTGCCCATCTCTCTGATCTCAGCTGACCGTCTCTCCCC  
 TGGCTTCCCGGCTGCAGAGAAACCCTCCTGGCTGTCTTACAGATGCTCCGTGCTCCTTCTGCCCCAG  
 GATCTTCGTTGTGCTGCTGGCTCTG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229977 representing NM\_001291179  
 Red=Cloning site Green=Tags(s)

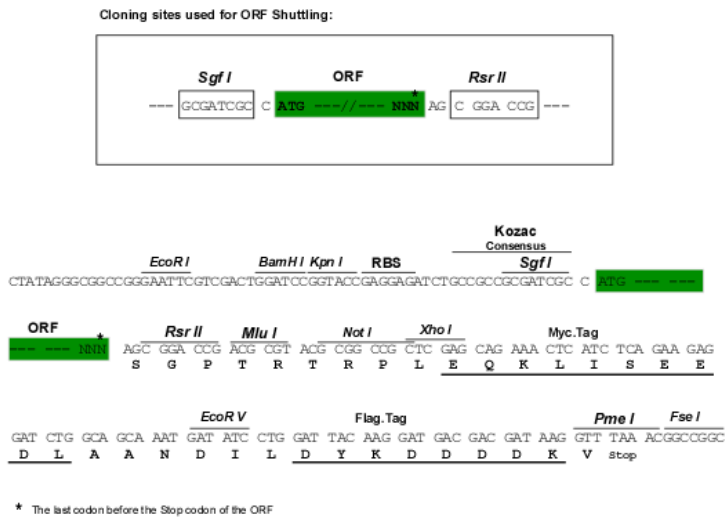
MSPRTSLAEDSCLGRHSPVPRPASRSSSPGAKRRHSACAEALVAPLPAASPQRSRSPSPQPSPHVALQDDS  
 IPAGYPTAGSAVLM DALNLTADSPCGIPSKIWKTS PDPTPVSTAPSKAGLARHIYPTVEFLGPCEQEE  
 RRNSAPESILLVPPTWPKQLVPAIPICSIPTASLPLEWPLSNQSGSYELRIEVQPKPHHRAHYETEGS  
 RGAVKAPTGGHPVVQLHGMYENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVL  
 EIPLEPKNNMRATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHVPEPSGRIVSLQAASNPIEC  
 SQRSAHELPMVERQDMSCLVYGGQOMILTGQNF TAESKVVFMKTTGPAGTCE TRPLPISLISADRLSP  
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**SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

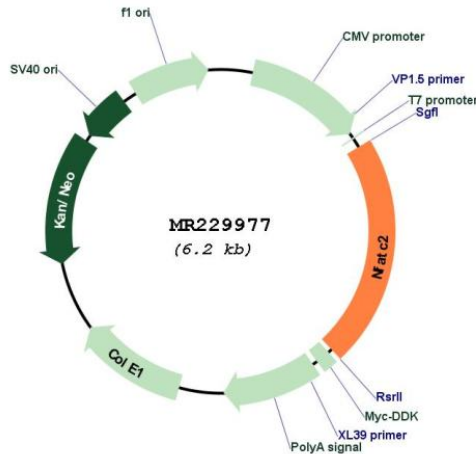
**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291179

ORF Size: 1356 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\\_001291179.1](#), [NP\\_001278108.1](#)

**RefSeq Size:** 2878 bp

**RefSeq ORF:** 1359 bp

**Locus ID:** 18019

**Cytogenetics:** 2 88.91 cM

**MW:** 49.4 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]