

## Product datasheet for **MR225712**

### **Nfatc2 (NM\_001037178) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | Nfatc2 (NM_001037178) Mouse Tagged ORF Clone     |
| Tag:                      | Myc-DDK  |
| Symbol:                   | Nfatc2   |
| Synonyms:                 | AI607462; NF-ATc2; NF-ATp; NFAT1; NFAT1-D; Nfatp |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)                           |
| E. coli Selection:        | Kanamycin (25 ug/mL)                             |



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**ORF Nucleotide Sequence:**

>MR225712 representing NM\_001037178  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGACACTCGCCCGTGCCCGTCCGGCAT  
 CCCGCTCTCTCACCCGGTGCCAAGCGGAGGCATTCTGTGCGCAGAGGCTTTGGTTGCTCTCTGCCCGC  
 AGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGC  
 ATCCCCGCTGGGTACCCCCACGCGCGGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCG  
 ACTCGCCTGCGGGATCCCTCCAAGATATGGAAGACCAGTCTGACCCGACGCTGTGTCCACCCTCC  
 GTCCAAGGCTGGCCTGGCCGCCACATCTACCCTACTGTGGAGTCTCTGGGGCCATGTGAGCAGGAGGAG  
 AGGAGGAATTCGCTCCAGATCCATCTGCTGGTACCACCTACTTGGCCCAAGCAGTTGGTGCCGGCCA  
 TTCCCATCTGCAGCATCCCTGTGACTGCATCCCTCCCACCACTCGAGTGGCCACTCTCCAATCAGTCGGG  
 CTCTATGAGCTACGGATTGAGGTCCAACCCAAGCCCCATCACCGGGCCCACTATGAGACGGAGGGCAGC  
 CGTGGCGCTGTCAAAGCCCCAACAGGAGGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGC  
 CTCTGGGGCTTACAGATCTTATTGGGACAGCAGATGAGAGGATCCTTAAGCCGCACGCTTCTACCAAGT  
 ACACAGGATCACTGGGAAAACGGTCAACCACACGAGCTATGAGAAGATCGTAGGCAACACCAAGTCTCTG  
 GAGATCCCCCTGGAGCCAAAGAACAATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGTCCGAA  
 ACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGT  
 CCGCGTGCAGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAACCCCATCGAGTGC  
 TCTCAGCGCTTGCCACGAGCTGCCATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGG  
 GCCAGCAGATGATCCTCACGGGCCAGAACTTACAGCGGAGTCCAAGTTGTGTTTCATGGAGAAGACTAC  
 AGGACCTGCAGGACCTGTGAGACTCGGCCTTGCCCATCTCTCTGATCTCAGCTGACCGTCTCTCCCCC  
 TGGCTTCCCGGCTGCAGAGAAACCCTCTGGCTCTGTCTTACAGTGCTCCGTGCTCCTCTGCCCCAG  
 GATCTTCGCTTGTGCTGCTGGCTCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225712 representing NM\_001037178  
 Red=Cloning site Green=Tags(s)

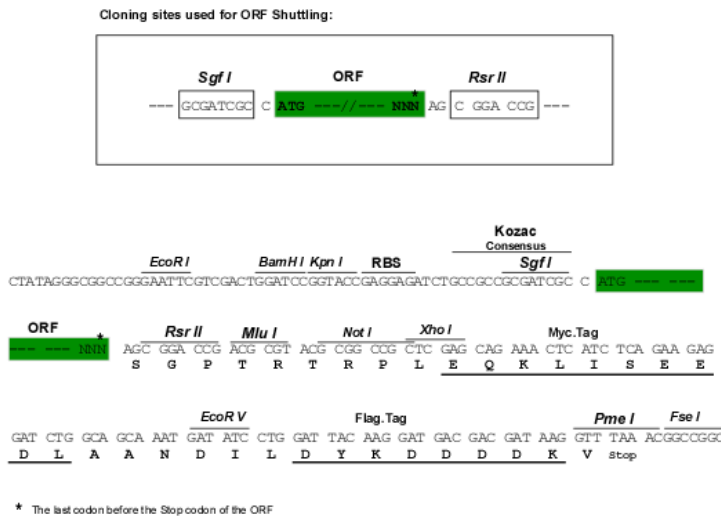
MSPRTSLAEDSCLGRHSPVPRPASRSSSPGAKRRHSACAEALVAPLPAASPQRSRSPSPQPSPHVALQDDS  
 IPAGYPPTAGSAVLMALNLTADSPCGIPSKIWKTSPTDPTVSTAPSKAGLARHIYPTVEFLGPCEQEE  
 RRNSAPESILLVPPTWPKQLVPAIPICSIPTASLPPLEWPLSNQSGSYELRIEVQPKPHHRAHYETEGS  
 RGAVKAPTGGHPVVQLHGYPENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTSTTSYEKIVGNKVL  
 EIPLEPKNNMRATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHVPEPSGRIVSLQAASNPIC  
 SQRSAHELPMVERQDMDSCLVYGGQMILTGQNFATAESKVVFMKTTGPAGTCETRPLPISLISADRLSP  
 WLSRLQRNPPGSVFRCSVLLPAPGSSLVLLAL

**SGP**TRRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

Cloning Scheme:



ACCN: NM\_001037178

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\\_001037178.2](#), [NP\\_001032255.1](#)

RefSeq Size: 2742 bp

RefSeq ORF: 1359 bp

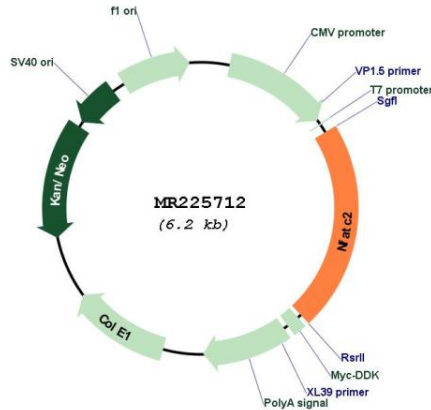
Locus ID: 18019

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]

**Product images:**



Circular map for MR225712