

## Product datasheet for **MR226076**

### **Nfatc1 (NM\_016791) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc1 (NM_016791) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfatc1
Synonyms:	2210017P03Rik; AI449492; AV076380; NF-ATc; NFAT2; NFATc; Nfatcb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226076 representing NM\_016791  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACGGGGCTGGAGCAGGACCCGGAGTTCGACTTCGATTTCTCTTCGAGTTCGATCAGAGCGGGGG  
 GCGCCGCGGCCGAGAACAACACTACAGTTATGTGTCCCCTAGTGTACCTCGACCCTGCCCTTCCCACAGC  
 ACACTCTGCCTTGCCAGCAGCATGCCACGACCTCCAGACGTCCACCCCGGGTATCTCAGCTGTTCCCTTCA  
 GCCAATCATCCCCCAGTTACGGAGGGGCTGTGGACAGCGGGCCTTCGGGATACTTCTGTCTCTGGCA  
 ACACCAGACCCAAACGGGGCCCGACTCTGGAGAGTCCGAGAATCGAGATCACCTCTACCTGGGCTACA  
 CCATGGCAGCGGCCAGTTTTTCCACGACGTGGAGGTGGAAGACGTAATCTAGCTGCAAGCGCTACCCG  
 TCTACAGCAACCTGCACCTGCCAGCCTGGAAGCCTACAGAGACCCCTCCTGCCTGAGCCAGCCAGCA  
 GTCTCTCTCCAGAAGCTGTAACCTCTGAGGCCCTCCTCCTACGAGTCCAATACTCTACCCATACGCGTC  
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 TCTCAATGGCCGGCAGCCCTCCTGCTCACCCACCACCTCACCCACACCATCCCCCATGGCTCCCCTCGG  
 GTCAGTGTGACCGAAGATACCTGGCTCGGTAACACCACCAGTATACCAGCTCTGCCATTGTGGCAGCCA  
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 ACTGGAGCATGCGCCCTCTGTGGCCCTCAAAGTAGAGCCAGCTGGGAAGACCTGGGCACCACTCCACCC  
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 TGTCGGTGCCACAGGCCCTCGTATCAGTGGGCGAAGCCAAAGTCTTTTCCCGACATATATGAGCCC  
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 GGATAACCAGCCCGTCCAAGTCAAGTTTCTATGTCTGCAACGGGAAACGGGAAGAGAAGCCAGTACCAGCG  
 TTTACGTACCTTCTGCCAATGGTAACCTGTCTTTTCAACCTTAAGCTCTGAGAGTGGAGTGGAGAGGA  
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AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
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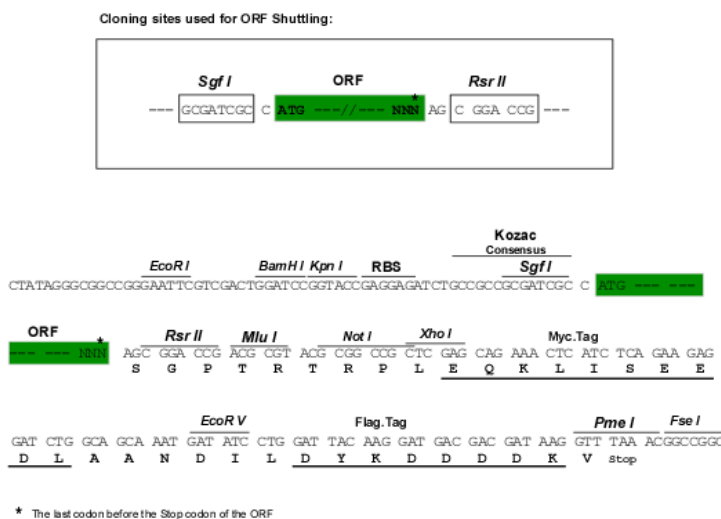
**Protein Sequence:** >MR226076 representing NM\_016791  
Red=Cloning site Green=Tags(s)

MTGLEQDPEFDFFLFEFDQSGGGAAAAEHYSYVSPSVTSTLPLPTAHSALPAACHDLQTSTPGISAVPS  
 ANHPPSYGGAVDSGPGSYFLSSGNTRPNGAPTLSPRIEITSYLGLHHGSGQFFHDVEVEDVLPSCKRSP  
 STATLHLPSEAYRDPSCSPASSLSSRSCNSEASSYESNYSYPYASPQTSWPQSPCVSPKTTDPEEGFP  
 RSLGACHLLGSPRHSPSTSPRASITEESWLGARGSRPTSPCNKRKYSLNGRQPSCSPHHSPTPSPHGSPR  
 VSVTEDTWLGNTTQYTSSAIVAAINALTTDSTLDLGDGVPIKSRKTALEHAPSVALKVEPAGEDLGTTPP  
 TSDFPPEEYTFQHLRKGAFCEQYLSVPQASYQWAKPKLSPTSYSMPSLPALDWQLPSHSGPYELRIEVQ  
 PKSHHRAHYETEGSRGAVKASAGGHPIVQLHGYLENEPLTLQLFIGTADDRLLRPHAFYQVHRITGKTVS  
 TTSHEIILSNTKVLEIPLLPENNMRAIIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHIPQPNG  
 RTL SLQVASNPICQSQAQELPLVEKQSTDSYPVIGGKMMVLSGHNFLQDSKIVFEKAPDGHVWEME  
 AKTDRDLCKPNSLVVEIPFRNQRITSPVQVSFYVCNGKRKRSQYQRTYLPANGNSVFLTLSSSELRG  
 GFY

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_016791

**ORF Size:** 2109 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\\_016791.4](#), [NP\\_058071.2](#)

**RefSeq Size:** 4511 bp

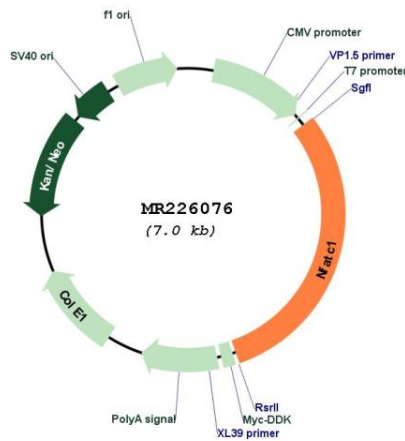
**RefSeq ORF:** 2112 bp

**Locus ID:** 18018

**Cytogenetics:** 18 53.66 cM

**MW:** 77.1 kDa

**Product images:**



Circular map for MR226076