

## Product datasheet for **MC222627**

### **Nfatc2 (NM\_001136073) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001136073) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC222627 representing NM\_001136073  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGTCCCGAGCCGCAGCCGACCCCGATGGCGGGACGGCCCGCCACGAGCCGGGGCAGTC  
 CCCAAGACGAGCTGGACTTTCCATCCTCTTCGATTATGACTATCTGAACCCTATCGAAGAAGAACCGAT  
 CGCACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTATGGCCTCAAG  
 CCATGCAACCCCTTGCCAGTCTCTCTGGCGAGCCCTGGCCGGTTCGGAGAGCCGGATAGTATAGGGT  
 TCCAGAACTTTCTGAGCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCGAGATCACTCC  
 ATCCCACGAACTGATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCCTGTCCCCGAGCAGCCG  
 GCCCTGGCCCTGGCCGGCTGGCCGCCAGCCGAGGTTACACTGCCCGTGCCGGCTACGAGGGCTACC  
 GCGAGCCGCTTTGCTTGAGCCCGCTAGCAGCGGCTCCTCTGCCAGTTCATTTCTGACACCTTCTCCCC  
 CTACACCTCGCCCTGCGTCTCACCAATAACGCCGGGCCGACGACCTGTGTCCCGAGTTTCAAACATC  
 CCTGCTCATTATCCCCCAGAACCTCTCCAATAATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCC  
 TGGGCCGACACTCGCCCGTGCCCGTCCGGCATCCCGCTCCTCCTCACCCGGTGCCAAGCGGAGGCATTC  
 GTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAG  
 CCCTCGCCTCAGTGGCACTGCAGGACGACAGCATCCCGCTGGGTACCCCCACGGCCGGCTCTGCTG  
 TTCTCATGGATGCCCTCAACACCTGGCCACCGACTCGCCCTGCGGGATCCCTCCAAGATATGGAAGAC  
 CAGTCTGACCCGACGCTGTGTCCACCGCTCCGTCCAAGGTGGCTGGCCGCCACATCTACCTACT  
 GTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAGGAAATTCGCTCCAGAGTCCATCCTGTGGTAC  
 CACCTATTGGCCCAAGCAGTTGGTGGCCGATTCATCCATGTCAGCATCCCTGTGACTCCTCCCTCC  
 ACCACTCGAGTGGCCACTCTCCAATCAGTCGGGCTCCTATGAGCTACGGATTGAGGTCCAACCAAGCCC  
 CATCACCGGGCCACTATGAGACGGAGGCGAGCCGTGGCGCTGTCAAAGCCCAACAGGAGGACACCCTG  
 TGGTGCAGCTCCACGGCTACATGGAGAACAAGCCTCTGGGGCTTCAGATCTTCATTGGGACAGCAGATGA  
 GAGGATCCTTAAGCCGCACGCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTACCACCACGAGC  
 TATGAGAAGATCGTAGGCAACACCAAGTCTGGAGATCCCTGGAGCCAAAGAACAACATGAGAGCCA  
 CCATCGACTGTGCAGGCATCCTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCAGACGGACAT  
 CGGCAGGAAGAACACGCGTGTGCGCCTGGTGTCCGCGTGCACGTCCAGAGCCAGTGGGCGCATCGTC  
 TCCTGCAGGCTGCGTCAACCCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCCATGGTGGAGA  
 GACAAGACATGGACAGCTGCCTGGTCTACGGGGCCAGCAGATGATCCTCACGGGCCAGAACTTACAGC  
 GGAGTCCAAGGTTGTGTTTCATGGAGAAGACTACAGATGGGCAGCAGATTTGGGAGATGGAAGTACGGTG  
 GATAAAGACAAGAGCCAGCCTAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCG  
 TGCCCGTGAAGTCAACTTCTACGTATCAACGGAAAGAGGAAACGAAGTACGCCACAGCACTTTACCTA  
 CCACCCAGTCCCTGCCATCAAGACAGAGCCAGCGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCC  
 CATGGAGGCTGGGGAGCCAGCCATATTACCCACAGCACCAATGCTGGCCGAGTCCCCCTCCTGCCTTG  
 TGGTACCATGGCCCCCTGCCAACAGTTCGCTCGGGGCTCTCATCCCCGATGCTCGTACCAACAGCA  
 GAGCCCCGAGCTGCCCTTACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGCTGGGCTACCAGCAGCCG  
 TCCCTCCTGGCAGCACCTTGGGTCTGGCTGATGCCACCGCTCTGTGCTGGTGCATGTGGTTCTCAGG  
 GGCAGGGGCAGGGCTCCACCCTGCCACACATCCTCGGCCAGCCAGCAGGCTCACCCGTGATCCACTA  
 CTCACCCACCAACCAGCAGTTCGCGGTGGGGTACCAGGAGTTCAGCATATCATGACTGTGAAAAC  
 TTCGGCCCCAGCTCTGCCAGGCTGGCCCGCTCCCATCAACCAAGGTGAGAGGCTGAGCCCGGGCGCT  
 ACCCCACAGTATCCAACAACAGACTGCCCCGAGCCAAAGAGCTGCCAAAACGGACCCAGTGACCAGAA  
 GGAAGCTCTGCCACGGGAGTGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCTGGATGACGAG  
 TTGATAGACACACCTTAGCTGGATACAAAACATATTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

<b>ACCN:</b>	NM_001136073
<b>Insert Size:</b>	2772 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001136073.2</a></u> , <u><a href="#">NP_001129545.1</a></u>
<b>RefSeq Size:</b>	6845 bp
<b>RefSeq ORF:</b>	2772 bp
<b>Locus ID:</b>	18019
<b>Cytogenetics:</b>	2 88.91 cM
<b>Gene Summary:</b>	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] Transcript Variant: This variant (4, also known as IB-IIL-Xa) contains an additional exon that results in an alternate 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (d) has a distinct C-terminus and is shorter than isoform a.