

## Product datasheet for **MC229152**

### **Nfatc2 (NM\_001291168) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291168) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC229152 representing NM\_001291168  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCGCCCCGATTGCGCAGGCCGGGCCCCGCCAGCCCCTCCGACCATGGGGTCTCGGACCGAG  
 AAGAACCATCGCACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTA  
 TGGCCTCAAGCCATGCAACCCCTTGCAGTCTCTGCGGAGCCCCCTGGCCGGTTCGGAGAGCCGGAT  
 AGTATAGGGTTCAGAATTTCTGAGCCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCG  
 AGATCACTCCATCCCACGAACTGATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCTGTCCCC  
 CGAGCAGCCGGCCCTGGCCCTGGCCGGCGTGGCCGCCAGCCGAGGTTACACTGCCCGTCCCGGCTAC  
 GAGGGCTACCGCAGCCGCTTTGCTTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGCTTCATTTCTGACA  
 CCTTCTCCCCCTACACCTCGCCCTGCGTCTCACCAATAACGCCGGGCCGAGCAGCTGTGTCCCCAGTT  
 TCAAAACATCCCTGCTCATTATTTCCCCAGAACCTCTCCAATAATGTACCTCGAACCAGCTCGCCGAG  
 GACAGCTGCCTGGGCCGACACTCGCCCGTGCCTCGGATCCCGCTCCTCTCACCCGGTGCCAAGC  
 GGAGGCATTCTGTCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCGAGCGTCCCGGAGCCC  
 CTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGCATCCCCGCTGGGTACCCCCACGGCC  
 GGCTCTGCTGTTCTATGGATGCCCTCAACACCCTGGCCACCGACTCGCCCTGCGGGATCCCCTCCAAGA  
 TATGGAAGACCAGTCTGACCCGACGCTGTGTCCACCCTCCGTCGAAGGCTGGCTGGCCGCCACAT  
 CTACCTACTGTGGAGTTCCTGGGGCATGTGAGCAGGAGGAGAGGAATTCCGCTCCAGAGTCCATC  
 CTGTGTACCACCTACTTGGCCCAAGCAGTTGGTGGCCGATCCCATCTGCAGCATCCCTGTGACTG  
 CTCCCTCCCACCACTCGAGTGGCCACTCTCAATCAGTCGGGCTCCTATGAGCTACGGATCGGATCCA  
 ACCCAAGCCCCATCACCGGCCCACTATGAGACGGAGGGCAGCCGTGGCGCTGTCAAAGCCCCAACAGGA  
 GGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGCCTCTGGGGCTTCAGATCTTATTGGGA  
 CAGCAGATGAGAGGATCCTTAAGCCGACGCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCA  
 CACCACGAGTATGAGAAGATCGTAGGCAACACCAAGGTCCTGGAGATCCCCCTGGAGCCAAAGAACA  
 ATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGCTCCGAAACGCTGACATCGAGTGCAGGAGGGC  
 AGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGTCCGCGTGCACGTCCAGAGCCAGTGG  
 GCGCATGCTCCCTGCAGGCTGCGTCCAACCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCC  
 ATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGGCCAGCAGATGATCCTCACGGCCAGA  
 ACTTCACAGCGGAGTCCAAGTTGTGTTTATGGAGAAGACTACAGATGGGAGCAGATTTGGGAGATGGA  
 AGCTACGGTGGATAAAGACAAGAGCCAGCCTAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACA  
 CACATCCGCGTGGCCGTGAAAGTCAACTTCTACGTCATCAACGGAAAGAGGAAACGAAGTCAAGCCAGC  
 ACTTTACCTACCACCCAGTCCCTGCCATCAAGACAGAGCCAGCGATGAGTATGAACCATCTTTGATCTG  
 CAGCCCCGCCATGGAGGCTGGGGAGCCAGCCATATTACCCACAGCACCAATGCTGGCCGAGTCCCCC  
 TCCTGCCTTGTGGCTACCATGGCCCCCTGCCAACAGTTCCGCTCGGGGCTCTCATCCCCGATGCTCGT  
 ACCAACAGCAGAGCCCCGAGCTGCCCTTACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGTGGGCTA  
 CCAGCAGCCGTCCTCCTGGCAGCACCCCTGGGTCTGGTGTGATGCCACCCTCTGTGCTGGTGCATG  
 GGTCTCAGGGGAGGGGAGGGCTCCACCCTGCCACACACATCCTCGGCCAGCCAGCAGGCTCACCCG  
 TGATCCACTACTACCCCAACAGCAGCTTCGCGGTGGGGTACCAGGAGTTCAGCATATCATGTA  
 CTGTGAAAATTCGGCCCCAGCTCTGCCAGGCTGGCCCGCTCCATCAACCAAGGTCAGAGGCTGAGC  
 CCGGGCGCTACCCACAGTCAACAACAGACTGCCCGAGCCAAAGAGTGCACAAAACGGACCCA  
 GTGACCAGAAGGAAGCTCTGCCACGGAGTGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCT  
 GGATGACGTTAATGAAATCATCAGGAAGGAGTTTTCAGGACCTCCCTCCGAAATCAGACCTAG

AC**GGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-NotI  
**ACCN:** NM\_001291168

<b>Insert Size:</b>	2724 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001291168.1, NP_001278097.1</u>
<b>RefSeq Size:</b>	6644 bp
<b>RefSeq ORF:</b>	2724 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 (5, also known as IA-IIL-deltaXa) contains an alternate 5' terminal exon, and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (e) has a distinct N-terminus and is shorter than isoform a.