

## Product datasheet for **MC228585**

### **Nfatc2 (NM\_001291172) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291172) 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:** >MC228585 representing NM\_001291172  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCGCCCCGATTGCGCAGGCCGGGCCCCGCCAGCCCCTCCGACCATGGGGTCTCGGACCGAG  
 AAGAACCAGATCGACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTA  
 TGGCCTCAAGCCATGCAACCCCTTGCAGTCTCTGCGAGCCCCCTGGCCGGTTCGGAGAGCCGGAT  
 AGTATAGGGTTCAGAATTTCTGAGCCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCG  
 AGATCACTCCATCCCACGAAGTATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCCTGTCCCC  
 CGAGCAGCCGGCCCTGGCCCTGGCCGGCGTGGCCGCCAGCCGAGGTTACACTGCCCGTCCCGGCTAC  
 GAGGGCTACCGCAGCCGCTTTGCTTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGCTTCATTTCTGACA  
 CCTTCTCCCCCTACACCTCGCCCTGCGTCTCACCAATAACGCCGGGCCGAGCAGCTGTGTCCCCAGTT  
 TCAAAACATCCCTGCTCATTATTTCCCCAGAACCTCTCCAATAATGTACCTCGAACCAGCTCGCCGAG  
 GACAGCTGCCTGGGCCGACACTGCCCGTGCCTCGCGCATCCCGCTCCTCTCACCCGGTGCCAAGC  
 GGAGGCATTTCGTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCGAGCGTCCCGGAGCCC  
 CTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGCATCCCCGCTGGGTACCCCCACGGCC  
 GGCTCTGCTGTTCTATGGATGCCCTCAACACCCTGGCCACCGACTCGCCCTGCGGGATCCCCTCCAAGA  
 TATGGAAGACCAGTCTGACCCGACGCTGTGTCCACCCTCCGTCCAAGGCTGGCTGGCCCGCCACAT  
 CTACCCTACTGTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAGAGGGAATTCGCTCCAGAGTCCATC  
 CTGTGGTACCACCTACTTGGCCAAGCAGTTGGTGGCCGATTCCTATCTGCAGCATCCCTGTGACTG  
 CATCCCTCCCACCACTCGAGTGGCCACTCTCAATCAGTCGGGCTCCTATGAGTACGGATTGAGGTCCA  
 ACCCAAGCCCCATCACCGGGCCACTATGAGACGGAGGGCAGCCGTGGCGCTGTCAAAGCCCCAACAGGA  
 GGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGCCTCTGGGGCTTCAGATCTTCATTGGGA  
 CAGCAGATGAGAGGATCCTTAAGCCGCACGCCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCA  
 CACCACGAGTATGAGAAGATCGTAGGCAACACCAAGGTCCTGGAGATCCCCCTGGAGCCAAAGAACAAC  
 ATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGCTCCGAAACGCTGACATCGAGTGCAGGAGGGCG  
 AGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGTCCGCGTGCACGTCCAGAGCCAGTGG  
 GCGCATGCTCCCTGCAGGCTGCGTCCAACCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCC  
 ATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGGCCAGCAGATGATCCTCACGGCCAGA  
 ACTTCACAGCGGAGTCCAAGTTGTGTTATGGAGAAGACTACAGGACCTGCAGGACCTGTGAGACTCG  
 GCCTTTGCCATCTCTCTGATCTCAGCTGACCGTCTCTCCCCCTGGCTTCCCGGCTGCAGAGAAACCT  
 CCTGGCTCTGCTTCAGATGCTCCGTGCTCCTCTGCCCCAGGATCTTCGCTTGTGCTGCTGGCTCTGT  
 AA

AC**GGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-NotI

**ACCN:** NM\_001291172

**Insert Size:** 1962 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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_001291172.1, NP_001278101.1</u>
<b>RefSeq Size:</b>	3283 bp
<b>RefSeq ORF:</b>	1962 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 (9, also known as IA-IIL-VIIa) contains alternate 5' and 3' exon structure, and it thus differs in both UTRs and in the 5' and 3' coding regions, compared to variant 1. The encoded isoform (i) has distinct N- and C-termini and is shorter than isoform a.