

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228585 representing NM_001291172
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCGCCCGCATTGCGCAGGCCGGGCCCGCCAGCCCTCCGACCATGGGGTCTCGGACCGAG
 AAGAACCAGATCGACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTA
 TGGCCTCAAGCCATGCAACCCCTTGCAGTCTCTGCGGAGCCCTGGCCGGTTCGGAGAGCCGGAT
 AGTATAGGGTTCAGAACTTTCTGAGCCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCG
 AGATCACTCCATCCACGAACTGATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCCTGTCCCC
 CGAGCAGCCGGCCCTGGCCCTGGCCGGCTGGCCGCCAGCCGAGGTTACACTGCCCGTCCCGGCTAC
 GAGGGCTACCGCAGCCGCTTTGCTTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGCTTCATTTCTGACA
 CCTTCTCCCCCTACACCTCGCCCTGCGTCTCACCAATAACGCCGGGCCGAGCAGCTGTGTCCCCAGTT
 TCAAAACATCCCTGCTCATTATTTCCCCAGAACCTCTCCAATAATGTACCTCGAACCGCTCGCCGAG
 GACAGCTGCCTGGGCCGACACTGCCCGTGCCTCGCGCATCCCGCTCCTCTCACCCGGTGCCAAGC
 GGAGGCATTCTGTCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCGAGCGTCCCGGAGCCC
 CTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGCATCCCCGCTGGGTACCCCCACGGCC
 GGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCGACTCGCCCTGCGGGATCCCCTCCAAGA
 TATGGAAGACCAGTCTGACCCGACGCCTGTGTCCACCCTCCGTCCAAGGCTGGCTGGCCCGCCACAT
 CTACCCTACTGTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAGAGGGAATTCGCTCCAGAGTCCATC
 CTGTGGTACCACCTACTTGGCCCAAGCAGTTGGTGGCCGATTCATCTGCAGCATCCCTGTGACTG
 CATCCCTCCCACCACTCGAGTGGCCACTCTCCAATCAGTCGGGCTCCTATGAGCTACGGATTGAGGTCCA
 ACCCAAGCCCCATCACCGGGCCCACTATGAGACGGAGGGCAGCCGTGGCGCTGTCAAAGCCCCAACAGGA
 GGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGCCTCTGGGGCTTCAGATCTTCATTGGGA
 CAGCAGATGAGAGGATCCTTAAGCCGCACGCCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCA
 CACCACGAGTATGAGAAGATCGTAGGCAACACCAAGGTCCTGGAGATCCCCCTGGAGCCAAAGAACAAC
 ATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGCTCCGAAACGCTGACATCGAGTGCAGGAGGGCG
 AGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGTCCGCGTGCACGTCCAGAGCCAGTGG
 GCGCATGCTCCCTGCAGGCTGCGTCCAACCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCC
 ATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGGCCAGCAGATGATCCTCACGGCCAGA
 ACTTCACAGCGGAGTCCAAGTTGTGTTTATGGAGAAGACTACAGGACCTGCAGGACCTGTGAGACTCG
 GCCTTTGCCATCTCTCTGATCTCAGCTGACCGTCTCTCCCCCTGGCTTCCCGGCTGCAGAGAAACCT
 CCTGGCTCTGCTTCAGATGCTCCGTGCTCCTCTGCCCGAGGATCTTCGCTTGTGCTGCTGGCTCTGT
 AA

AC**GGGCCCGC**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.

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:	<ol style="list-style-type: none">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:	<u>NM_001291172.1, NP_001278101.1</u>
RefSeq Size:	3283 bp
RefSeq ORF:	1962 bp
Locus ID:	18019
Cytogenetics:	2 88.91 cM
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] 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.