

Product datasheet for **MC228718**

Nfatc2 (NM_001291174) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291174) 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: >MC228718 representing NM_001291174
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGACACTCGCCCGTGCCCGTCCGGCAT
 CCCGCTCCTCCTCACCCGGTGCCAAGCGGAGGCATTTCGTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGC
 AGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGC
 ATCCCCGCTGGGTACCCCCACGGCCGGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCG
 ACTCGCCTGCGGGATCCCTCCAAGATATGGAAGACCAGTCTGACCCGACGCCTGTGTCCACCCTCC
 GTCCAAGGCTGGCTGGCCGCCACATCTACCCTACTGTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAG
 AGGAGGAATTCGCTCCAGATCCATCTGCTGGTACCACCTACTTGGCCCAAGCAGTTGGTGCCGGCCA
 TTCCCATCTGCAGCATCCCTGTGACTGCATCCCTCCCACCACTCGAGTGGCCACTCTCCAATCAGTCGGG
 CTCCTATGAGCTACGGATTGAGGTCCAACCCAAGCCCCATCACCGGGCCCACTATGAGACGGAGGGCAGC
 CGTGGCGCTGTCAAAGCCCCAACAGGAGGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGC
 CTCTGGGGCTTACAGATCTTATTGGGACAGCAGATGAGAGGATCCTTAAGCCGCACGCCTTCTACCAAGT
 ACACAGGATCACTGGGAAAACGGTCACCACCACGAGCTATGAGAAGATCGTAGGCAACACCAAGTCCCTG
 GAGATCCCCCTGGAGCCAAAGAACAATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGTCCGAA
 ACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTGTGCCCTGGTGT
 CCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAACCCCATCGAGTGC
 TCTCAGCGCTCTGCCCACGAGCTGCCCATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGG
 GCCAGCAGATGATCCTCACGGCCAGAATTACAGCGGAGTCCAAGTTGTGTTTCATGGAGAAGACTAC
 AGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCCTAACATGCTTTTT
 GTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTCCCGTCAAAGTCAACTTCTACGTCATCAACG
 GAAAGAGGAAACGAAGTCAGCCACAGCACTTTACCTACCACCCAGTCCCTGCCATCAAGACAGAGCCAG
 CGATGAGTATGAACCATCTTTGATCTGCAGCCCGCCCATGGAGGCTGGGGAGCCAGCCATATTACCCA
 CAGCACCAATGCTGGCCGAGTCCCCTCCTGCCTTGTGGTACCATGGCCCCCTGCCAACAGTTCGCT
 CGGGGCTCTCATCCCCGATGCTCGCTACCAACAGCAGAGCCCCGAGCTGCCCTCTACCAGAGAAGCAA
 GAGCCTGAGTCCCGCCTGCTGGGCTACCAGCAGCCGTCCTCCTGGCAGCACCTTGGGTCTGGCTGAT
 GCCCACGCTCTGTGCTGGTGCATGCTGTTCTCAGGGGCAGGGGCAGGGCTCCACCCTGCCACACAT
 CCTCGGCCAGCCAGCAGCCTCACCCGTGATCCACTACTCACCCACCAACCAGCAGCTTCGCGGTGGGG
 TCACCAGGAGTTCAGCATATCATGTAAGTGTGAAAACCTCGGCCCCAGCTCTGCCAGGCCTGGCCCGCT
 CCCATCAACCAAGGTGAGAGGCTGAGCCCGGGCGCCTACCCACAGTCATCCAACAACAGACTGCCCCGA
 GCCAAAGAGCTGCCAAAACGGACCCAGTGACCAGAAGGAAGCTCGCCACGGGAGTGACCGTCAAACA
 GGAACAGAACCTGGACCAGACCTACCTGGATGACGAGTTGATAGACACACACCTTAGCTGGATACAAAAC
 ATATT**TGA**

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001291174

Insert Size: 2109 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001291174.1</u> , <u>NP_001278103.1</u>
RefSeq Size:	6210 bp
RefSeq ORF:	2109 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 (11, also known as IA-IIS-Xa) contains alternate 5' and 3' exon structure, and it thus differs in both UTRs, initiates translation at a downstream in-frame start codon, and differs in the 3' coding region, compared to variant 1. The encoded isoform (k) is shorter at the N-terminus and has a distinct C-terminus, compared to isoform a. Both variants 11 and 12 encode isoform k.