

Product datasheet for **MC220317**

Nfatc2 (NM_001037177) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001037177) 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: >MC220317 representing NM_001037177
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTCCCGAGCCGCAGCCCGACCCCGATGGCGGGACGGCCCCGCCACGAGCCCGGGGACGTC
 CCCAAGACGAGCTGGACTTTCCATCCTCTTCGATTATGACTATCTGAACCCTATCGAAGAAGAACCGAT
 CGCACATAAGGCCATCAGCTCACCTCCGGACTCGCATACCCGGATGATGTCCTGGACTATGGCCTCAAG
 CCATGCAACCCCTTGCCAGTCTCTCTGGCGAGCCCCCTGGCCGGTTCGGAGAGCCGGATAGTATAGGGT
 TCCAGAACTTTCTGAGCCGGTCAAGCCAGCAGGGGCTTCGGGCCGAGCCCTCGGATCGAGATCACTCC
 ATCCCACGAACTGATGCAGGCAGGGGGGCCCTCCGTGGGAGAGACGCCGGCCTGTCCCCGAGCAGCCG
 GCCCTGGCCCTGGCCGGCTGGCCGCCAGCCGAGGTTACACTGCCCGTGCCGGCTACGAGGGCTACC
 GCGAGCCGCTTTGCTTGAGCCCCGCTAGCAGCGGCTCCTCTGCCAGTTCATTTCTGACACCTTCTCCCC
 CTACACCTCGCCCTGCGTCTACCCAATAACGCCGGGCCGACGACCTGTGTCCCAGTTTCAAACATC
 CCTGCTCATTATCCCCCAGAACCTCTCCAATAATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCC
 TGGGCCGACACTCGCCCGTGCCCGTCCGGCATCCCGCTCCTCTCACCCGGTGCCAAGCGGAGGCAATTC
 GTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGCAGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAG
 CCCTCGCCTCAGTGGCACTGCAGGACGACAGCATCCCCGCTGGGTACCCCCACGCGCCGGCTCTGCTG
 TTCTCATGGATGCCCTCAACACCTGGCCACCGACTCGCCCTGCGGGATCCCCTCCAAGATATGGAAGAC
 CAGTCTGACCCGACGCTGTGTCCACCGCTCCGTCCAAGGCTGGCTGGCCGCCACATCTACCTACT
 GTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAGAGGAAATTCGCTCCAGAGTCCATCCTGCTGGTAC
 CACTACTTGGCCAAGCAGTTGGTGGCCGCAATCCCATCTGCAGCATCCCTGTGACTGCATCCCTCCC
 ACCACTCGAGTGGCACTCTCCAATCAGTCGGGCTCCTATGAGTACGGATTGAGGTCCAACCAAGCCC
 CATCACCGGGCCACTATGAGACGGAGGGCAGCCGTGGCGCTGTCAAAGCCCCAACAGGAGGACACCCTG
 TGGTGCAGCTCCACGGCTACATGGAGAACAAGCCTCTGGGGCTTCAGATCTTCATTGGGACAGCAGATGA
 GAGGATCCTTAAGCCGCACGCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCACCACCACGAGC
 TATGAGAAGATCGTAGGCAACACCAAGTCTGGAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCA
 CCATCGACTGTGCAGGCATCCTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCAGACGGACAT
 CGGCAGGAAGAACACGCGTGTGCGCCTGGTGTCCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTC
 TCCTGCAGGCTGCGTCAACCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCCATGGTGGAGA
 GACAAGACATGGACAGCTGCCTGGTCTACGGGGCCAGCAGATGATCCTCACGGGCCAGAACTTCACAGC
 GGAGTCCAAGGTTGTGTTTCATGGAGAAGACTACAGGACCTGCAGGGACCTGTGAGACTCGGCCTTTGCC
 ATCTCTGATCTCAGCTGACCGTCTCTCCCCCTGGCTTTCCCGGCTGCAGAGAAACCTCCTGGCTCTG
 TCTTCAGATGCTCCGTGCTCCTCTGCCCCAGGATCTTCGCTTGTGCTGCTGGCTCTG**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-RsrII
- ACCN:** NM_001037177
- Insert Size:** 2022 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).
- 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:

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: [NM_001037177.2](#), [NP_001032254.1](#)

RefSeq Size: 3398 bp

RefSeq ORF: 2022 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 (2, also known as IB-IIL-VIIa) lacks four 3' exons but contains an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (b) has a distinct C-terminus and is shorter than isoform a.