

Product datasheet for **MC227873**

Nfatc2 (NM_001291176) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291176) 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: >MC227873 representing NM_001291176
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACAAGCCTCTGGGCTTCAGATCTTCATTGGGACAGCAGATGAGAGGATCCTTAAGCCGACG
 CCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTACCACCACGAGCTATGAGAAGATCGTAGGCAA
 CACCAAGTCTGGAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCACCATCGACTGTGCAGGCATC
 CTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTG
 TGCGCCTGGTGTCCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAA
 CCCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCCATGGTGGAGAGACAAGACATGGACAGCTGC
 CTGGTCTACGGGGCCAGCAGATGATCCTCACGGGCCAGAACTCACAGCGGAGTCCAAGTTGTGTTCA
 TGGAGAAGACTACAGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCC
 TAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTGCCCGTGAAGTCAACTTC
 TACGTCATCAACGGAAAGAGGAAACGAAGTACGCCACAGCACTTACCTACCACCCAGTCCCTGCCATCA
 AGACAGAGCCCAGCGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCCATGGAGGCCTGGGGAGCCA
 GCCATATTACCCACAGCACCCAATGCTGGCCGAGTCCCCCTCCTGCCTTGTGGCTACCATGGCCCCCTGC
 CAACAGTTCGCGTCCGGGCTCTCATCCCCGATGCTCGTACCAACAGCAGAGCCCCGCAGCTGCCCTCT
 ACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGCTGGGTACCAGCAGCCGTCCCTCCTGGCAGCACCCCTT
 GGGTCTGGCTGATGCCACCCTCTGTGCTGGTGCATGCTGGTTCTCAGGGGCAGGGGCAGGGCTCCACC
 CTGCCACACATCCTCGGCCAGCCAGCAGGCCCTACCCGTGATCCACTACTACCCACCAACCAGCAGC
 TTCCGGTGGGGTCCACAGGATTCAGCATATCATGTACTGTGAAAACCTTCGGCCCCAGCTCTGCCAG
 GCCTGGCCCGCTCCCATCAACCAAGGTCAGAGGCTGAGCCCGGGCGCCTACCCACAGTCATCCAACAA
 CAGACTGCCCCGAGCCAAAGAGCTGCCAAAAACGGACCCAGTGACCAGAAGGAACTCTGCCACGGGAG
 TGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCTGGATGACGAGTTGATAGACACACACCTTAG
 CTGGATACAAAACATATT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001291176

Insert Size: 1422 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:

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_001291176.1](#), [NP_001278105.1](#)

RefSeq Size: 5809 bp

RefSeq ORF: 1422 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 (13, also known as IB-delta11-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 (h) is shorter at at the N-terminus and has a distinct C-terminus, compared to isoform a. Both variants 8 and 13 encode isoform h.