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Product datasheet for MC227872

Nfatc2 (NM_001291171) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291171) 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:

>MC227872 representing NM_001291171
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAACAAGCCTCTGGGGCTTCAGATCTTCATTGGGACAGCAGATGAGAGGATCCTTAAGCCGCACG
CCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTCACCACCACGAGCTATGAGAAGATCGTAGGCAA
CACCAAGGTCCTGGAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCACCATCGACTGTGCAGGCATC
CTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTG
TGCGCCTGGTGTTCCGCGTGCACGTCCCAGAGCCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAA
CCCCATCGAGTGCTCTCAGCGCTCTGCCCACGAGCTGCCCATGGTGGAGAGACAAGACATGGACAGCTGC
CTGGTCTACGGGGGCCAGCAGATGATCCTCACGGGCCAGAACTTCACAGCGGAGTCCAAGGTTGTGTTCA
TGGAGAAGACTACAGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCC
TAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTGCCCGTGAAAGTCAACTTC
TACGTCATCAACGGAAAGAGGAAACGAAGTCAGCCACAGCACTTTACCTACCACCCAGTCCCTGCCATCA
AGACAGAGCCCAGCGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCCCATGGAGGCCTGGGGAGCCA
GCCATATTACCCACAGCACCCAATGCTGGCCGAGTCCCCCTCCTGCCTTGTGGCTACCATGGCCCCCTGC
CAACAGTTCCGCTCGGGGCTCTCATCCCCCGATGCTCGCTACCAACAGCAGAGCCCCGCAGCTGCCCTCT
ACCAGAGAAGCAAGAGCCTGAGTCCCGGCCTGCTGGGCTACCAGCAGCCGTCCCTCCTGGCAGCACCCTT
GGGTCTGGCTGATGCCCACCGCTCTGTGCTGGTGCATGCTGGTTCTCAGGGGCAGGGGCAGGGCTCCACC
CTGCCACACACATCCTCGGCCAGCCAGCAGGCCTCACCCGTGATCCACTACTCACCCACCAACCAGCAGC
TTCGCGGTGGGGGTCACCAGGAGTTCCAGCATATCATGTACTGTGAAAACTTCGGCCCCAGCTCTGCCAG
GCCTGGCCCGCCTCCCATCAACCAAGGTCAGAGGCTGAGCCCGGGCGCCTACCCCACAGTCATCCAACAA
CAGACTGCCCCGAGCCAAAGAGCTGCCAAAAACGGACCCAGTGACCAGAAGGAAGCTCTGCCCACGGGAG
TGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCTGGATGACGAGTTGATAGACACACACCTTAG
CTGGATACAAAACATATTATGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001291171

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_001291171.1, NP_001278100.1
RefSeq Size:	5694 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 (8, also known as IA-deltaII-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.