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Product datasheet for MC228719

Nfatc2 (NM_001291175) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291175) 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:

>MC228719 representing NM_001291175
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGACACTCGCCCGTGCCCCGTCCGGCAT
CCCGCTCCTCCTCACCCGGTGCCAAGCGGAGGCATTCGTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGC
AGCCTCACCCCAGCGCTCCCGGAGCCCCTCGCCACAGCCCTCGCCTCACGTGGCACTGCAGGACGACAGC
ATCCCCGCTGGGTACCCCCCCACGGCCGGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCG
ACTCGCCCTGCGGGATCCCCTCCAAGATATGGAAGACCAGTCCTGACCCGACGCCTGTGTCCACCGCTCC
GTCCAAGGCTGGCCTGGCCCGCCACATCTACCCTACTGTGGAGTTCCTGGGGCCATGTGAGCAGGAGGAG
AGGAGGAATTCCGCTCCAGAGTCCATCCTGCTGGTACCACCTACTTGGCCCAAGCAGTTGGTGCCGGCCA
TTCCCATCTGCAGCATCCCTGTGACTGCATCCCTCCCACCACTCGAGTGGCCACTCTCCAATCAGTCGGG
CTCCTATGAGCTACGGATTGAGGTCCAACCCAAGCCCCATCACCGGGCCCACTATGAGACGGAGGGCAGC
CGTGGCGCTGTCAAAGCCCCAACAGGAGGACACCCTGTGGTGCAGCTCCACGGCTACATGGAGAACAAGC
CTCTGGGGCTTCAGATCTTCATTGGGACAGCAGATGAGAGGATCCTTAAGCCGCACGCCTTCTACCAAGT
ACACAGGATCACTGGGAAAACGGTCACCACCACGAGCTATGAGAAGATCGTAGGCAACACCAAGGTCCTG
GAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCACCATCGACTGTGCAGGCATCCTGAAGCTCCGAA
ACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTGTGCGCCTGGTGTT
CCGCGTGCACGTCCCAGAGCCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAACCCCATCGAGTGC
TCTCAGCGCTCTGCCCACGAGCTGCCCATGGTGGAGAGACAAGACATGGACAGCTGCCTGGTCTACGGGG
GCCAGCAGATGATCCTCACGGGCCAGAACTTCACAGCGGAGTCCAAGGTTGTGTTCATGGAGAAGACTAC
AGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCCTAACATGCTTTTT
GTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTGCCCGTGAAAGTCAACTTCTACGTCATCAACG
GAAAGAGGAAACGAAGTCAGCCACAGCACTTTACCTACCACCCAGTCCCTGCCATCAAGACAGAGCCCAG
CGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCCCATGGAGGCCTGGGGAGCCAGCCATATTACCCA
CAGCACCCAATGCTGGCCGAGTCCCCCTCCTGCCTTGTGGCTACCATGGCCCCCTGCCAACAGTTCCGCT
CGGGGCTCTCATCCCCCGATGCTCGCTACCAACAGCAGAGCCCCGCAGCTGCCCTCTACCAGAGAAGCAA
GAGCCTGAGTCCCGGCCTGCTGGGCTACCAGCAGCCGTCCCTCCTGGCAGCACCCTTGGGTCTGGCTGAT
GCCCACCGCTCTGTGCTGGTGCATGCTGGTTCTCAGGGGCAGGGGCAGGGCTCCACCCTGCCACACACAT
CCTCGGCCAGCCAGCAGGCCTCACCCGTGATCCACTACTCACCCACCAACCAGCAGCTTCGCGGTGGGGG
TCACCAGGAGTTCCAGCATATCATGTACTGTGAAAACTTCGGCCCCAGCTCTGCCAGGCCTGGCCCGCCT
CCCATCAACCAAGGTCAGAGGCTGAGCCCGGGCGCCTACCCCACAGTCATCCAACAACAGACTGCCCCGA
GCCAAAGAGCTGCCAAAAACGGACCCAGTGACCAGAAGGAAGCTCTGCCCACGGGAGTGACCGTCAAACA
GGAACAGAACCTGGACCAGACCTACCTGGATGACGAGTTGATAGACACACACCTTAGCTGGATACAAAAC
ATATTATGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001291175

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).

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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_001291175.1, NP_001278104.1
RefSeq Size:	6325 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 (12, also known as IB-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.

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