

Product datasheet for **MR230105**

Nfatc2 (NM_001291173) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291173) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230105 representing NM_001291173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAAACAAGCCTCTGGGCTTCAGATCTTCATTGGGACAGCAGATGAGAGGATCCTTAAGCCGACG
 CCTTCTACCAAGTACACAGGATCACTGGGAAAACGGTACCACCACGAGCTATGAGAAGATCGTAGGCAA
 CACCAAGTCTGGAGATCCCCCTGGAGCCAAAGAACAACATGAGAGCCACCATCGACTGTGCAGGCATC
 CTGAAGCTCCGAAACGCTGACATCGAGCTGCGGAAGGGCGAGACGGACATCGGCAGGAAGAACACGCGTG
 TGCGCCTGGTGTCCGCGTGCACGTCCCAGAGCCAGTGGGCGCATCGTCTCCCTGCAGGCTGCGTCCAA
 CCCCATCGAGTGTCTCAGCGCTCTGCCACGAGCTGCCATGGTGGAGAGACAAGACATGGACAGCTGC
 CTGGTCTACGGGGCCAGCAGATGATCCTCACGGGCCAGAACTTACAGCGGAGTCCAAGTTGTGTTCA
 TGGAGAAGACTACAGATGGGCAGCAGATTTGGGAGATGGAAGCTACGGTGGATAAAGACAAGAGCCAGCC
 TAACATGCTTTTTGTTGAGATCCCCGAGTATCGGAACAAGCACATCCGCGTGCCCGTGAAAGTCAACTTC
 TACGTCATCAACGGAAAGAGGAAACGAAGTACGCCACAGCACTTACCTACCACCAGTCCCTGCCATCA
 AGACAGAGCCCAGCGATGAGTATGAACCATCTTTGATCTGCAGCCCCGCCATGGAGGCCTGGGGAGCCA
 GCCATATTACCACAGCACCCAAATGCTGGCCGAGTCCCCCTCCTGCCTTGTGGCTACCATGGCCCCCTGC
 CAACAGTTCGCGCTCGGGCTCTCATCCCCGATGCTCGTACCAACAGCAGAGCCCCGCAGCTGCCCTCT
 ACCAGAGAAGCAAGAGCCTGAGTCCCGGCTGCTGGGTACCAGCAGCCGTCCTCCTGGCAGCACCCCTT
 GGGTCTGGCTGATGCCACCCTCTGTGCTGGTGCATGCTGGTTCTCAGGGGCAGGGGCAGGGCTCCACC
 CTGCCACACATCCTCGGCCAGCCAGCAGGCCTCACCCGTGATCCACTACTACCCACCAACCAGCAGC
 TTGCGCGTGGGGTACCAGGATTCAGCATATCATGTACTGTGAAAACCTTCGGCCCCAGCTCTGCCAG
 GCCTGGCCCCCTCCCATCAACCAAGGTGAGAGGCTGAGCCCGGGCGCCTACCCACAGTCATCCAACAA
 CAGACTGCCCCGAGCCAAAGAGCTGCCAAAAACGGACCCAGTGACCAGAAGGAACTCTGCCACGGGAG
 TGACCGTCAAACAGGAACAGAACCTGGACCAGACCTACCTGGATGACGTTAATGAAATCATCAGGAAGGA
 GTTTTCAGGACCTCCCTCCCAAATCAGACC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230105 representing NM_001291173
 Red=Cloning site Green=Tags(s)

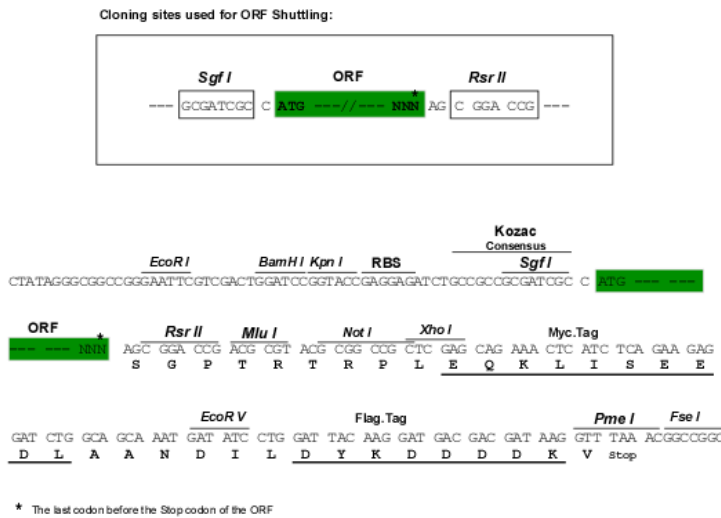
MENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTTSYEKIVGNTKVLEIPLPKNNMRATIDCAGI
 LKLRNADIELRKGETDIGRKNTRVRLVFRVHVPEPSGRIVSLQAASNPIECSQRSHELPMVERQDMDSC
 LVYGGQMI L TGQNF TAESKVV FMEKTTD GQQI WEMEA TVDKD K SQPNML FVEIPEYRNKHIRVPKVN
 YVINGKRKRSQPQHFTYHPVPAIKTEPSDEYEPSLICSPAHGGLGSQPYYPQHPLAESPSCLVATMAPC
 QQFRSGLSSPDARYQQSPAAALYQRSKSLSPGLLGYQQPSLLAAPLGLADAHRSVLVHAGSQGQGGST
 LPHTSSASQASPVIIHYSPTNQQLRGGGHQEFQHIMYCENFGPSSARPGPPPINQGQRLSPGAYPTVIQQ
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SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDK**V

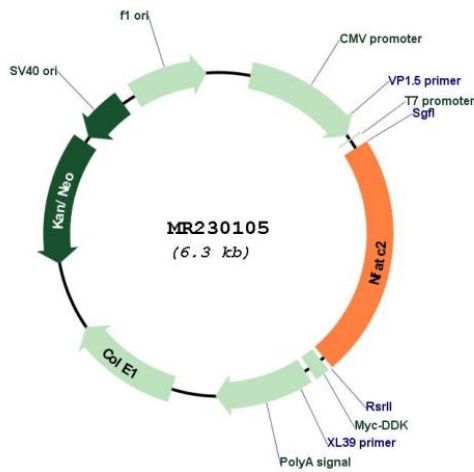
Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291173

ORF Size: 1431 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001291173.1](#), [NP_001278102.1](#)

RefSeq Size: 5608 bp

RefSeq ORF: 1434 bp

Locus ID: 18019

Cytogenetics: 2 88.91 cM

MW: 53.1 kDa

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]