

Product datasheet for **MR230941**

Nfatc2 (NM_001291170) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2 (NM_001291170) 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:

>MR230941 representing NM_001291170
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCACCTCGAACCAGCCTCGCCGAGGACAGCTGCCTGGGCCGACACTCGCCCGTGCCCGTCCGGCAT
 CCCGCTCCTCCTCACCCGGTGCCAAGCGGAGGCATTCTGTGCGCAGAGGCTTTGGTTGCTCCTCTGCCCGC
 AGCCTCACCCAGCGCTCCCGGAGCCCTCGCCACAGCCCTCGCCTCAGTGGCACTGCAGGACGACAGC
 ATCCCCGCTGGGTACCCCCACGGCCGGCTCTGCTGTTCTCATGGATGCCCTCAACACCCTGGCCACCG
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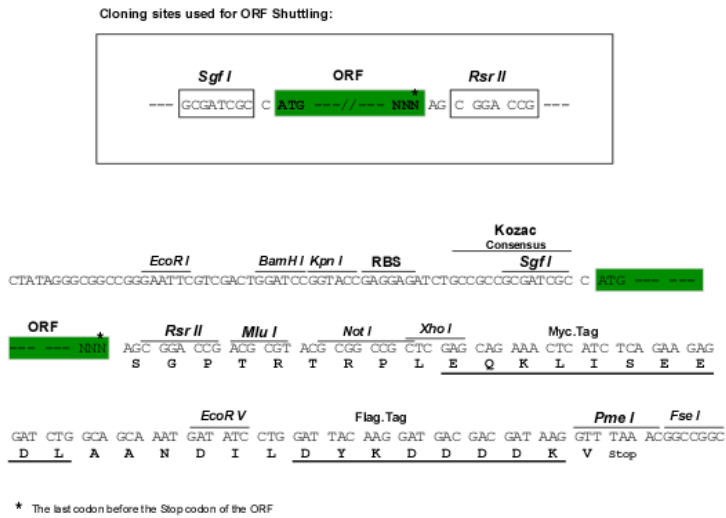
Protein Sequence: >MR230941 representing NM_001291170
 Red=Cloning site Green=Tags(s)

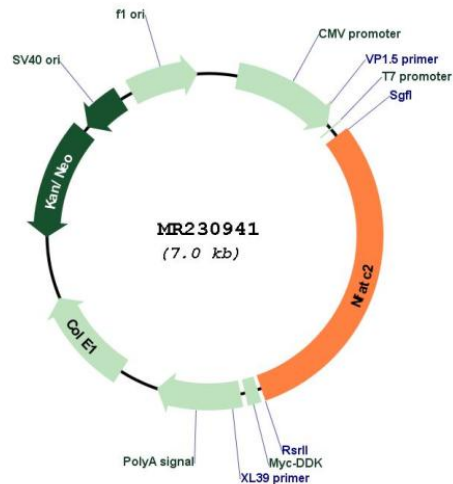
MSPRTSLAEDSCLGRHSPVPRPASRSSSPGAKRRHSACAEALVAPLPAASPQRSRSPSPQPSPHVALQDDS
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 RRNSAPESILLVPPTWPKQLVPAIPICSI PVTASLPLEWPLSNQSGSYELRIEVQPKPHHRAHYETEGS
 RGA VKAPTGGHPVVQLHG YMENKPLGLQIFIGTADERILKPHAFYQVHRITGKT VTTTSYEKIVGNTKVL
 EIPLEPKNNMRATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHVPEPSGRIVSLQAASNPIEC
 SQRSAHELPMVERQDMD SCLVYGGQQMILTGQNF TAESKVVFMEKTTDGGQI WEMEATVDKDKSQPNMLF
 VEIPEYRNKHIRVPVKVNFYVINGKRKRSQPQHFTYHPVPAIKTEPSDEYEPSLICSPA HGLG SQPYYP
 QHPMLAESPSCLVATMAPCQQFRSGLSSPDARYQQQSPA AALYQRSKSLSPGLLGYQQPSLLAAPLGLAD
 AHRSVLVHAGSQGQGGSTLPHTSSASQQASPIHYSPTNQQLRGGGHQEFQHIMYCENFGPSSARPGPP
 PINQGQRLSPGAYPTVIQQQTAPSQRAAKNGPSDQKEALPTGVTVKQEQLDQTYLDDVNEIIRKEFSGP
 PSRNQT

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291170

ORF Size: 2118 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_001291170.1](#), [NP_001278099.1](#)

RefSeq Size: 6124 bp

RefSeq ORF: 2121 bp

Locus ID:	18019
Cytogenetics:	2 88.91 cM
MW:	77.4 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]