

Product datasheet for **MR221981**

Nfatc2ip (NM_010900) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2ip (NM_010900) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfatc2ip
Synonyms:	D7Ert304e; NIP45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221981 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCCCGGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCG
CCCGTGGCCGGTGCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCCAGACACCGTGCTTGGAAGT
GGTCAGTGACAGCGACGAAGAGGTCTTGAAGTCGCAGACCCAGTAGAGGTGCCGGTCGCCCGCTCCCC
GCGCCGGCTAAACCTGAGCAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGCTCGGGAGCCC
CGCGTACATTGGTGCGACGGCGGCGGCGGCTGCTGGATCCCGGAGAGGCGCCGGTGGTCCCAGTGTA
CTCCGGGAAGGTACAGAGCAGCCTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCTGAGGATGATGCCCTGCCTTCAG
GTTCTCCCTGGAGAAAGAAGCTCAGAAAGAAGTGTGAGAAAGAAGAAAGAAATGGAAGAGTTTCCGGA
CCAGGACATCTCTCTTTGCCCAACCTTCGTCAAGGAACAAAAGCAGAAAGCATACGGAGGCGCTCCAG
AAGCTAAGGGAAGTGAACAAGCGTCTCCAAGATCTCCGCTCTGCCTGAGCCCCAAGCAGCACCAGATC
CAGCCCTTCAGAGCACAGATGATGAGGTGGTCTAGTGAAGGGCCTGTCTTGCCACAGAGCTCTCGACT
CTTTACACTCAAGATCCGGTGCCGGGCTGACCTAGTGAGACTGCCTGTGAGGATGTCGGAGCCCTTCAG
AATGTGGTGGATCACATGGCCAATCATCTTGGGGTGTCTCCAAACAGGATTCTTTTGCTTTTGGAGAGA
GTGAAGTGTCTCTACTGCCACCCCTAGTACCCTAAAGCTTGGAGTGGCTGACATCATTGATTGTGTGGT
GCTAGCAAGCTCTTCAGAGGCCACAGAGACATCCAGGAGCTCCGGCTCCGGGTGAGGGGAAGGAGAAA
CACCAGATGTTGGAGATCTCACTGTCTCTGATTCTCTCTTAAGGTTCTCATGTACACTATGAGGAAG
CCATGGGACTCTCTGGACACAAGCTCTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTGCC
AGCTGATCTGGGCTGGAATCCGAGATCTCATCGAAGTCTGGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221981 protein sequence
Red=Cloning site Green=Tags(s)

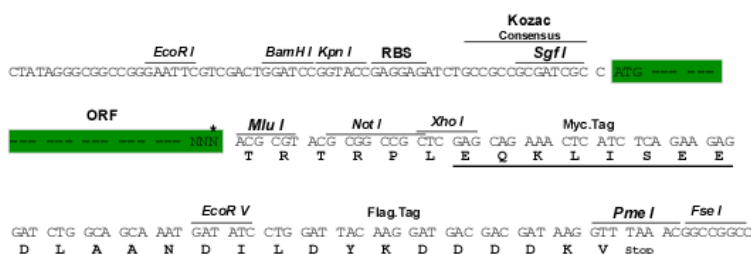
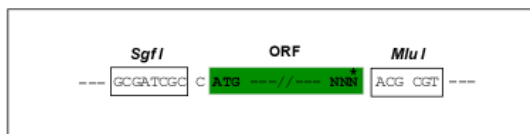
MAEPLRGRGPRSRGGRGARRARGARGRCPRARQSPARLIPDPTVLVDLVSDSDEEVLEVADPVEVPVARLP
APAKPEQDSDSDSEGAEEGAPAGAPRTLVRRRRRRLLDPGEAPVVPVYSGKVQSSNLIPDNSSLLKLCP
EPEDEADLTNSGSSPEDDALPSGSPWRKKLRKKCEKEEKKMEEFDPQDISPLPQPSRNKSRKHTEALQ
KLREVNKRLQDLRSLSPKQHQSPALQSTDDVEVLVEGPVLPQSSRLFLLKIRCRADLRLVPLVRMSEPLQ
NVYDHMANHLVSPNRIILLFGESELSPATSTLKGVLGVAIDICVLLASSEATSETQLRLRLVQKKEK
HOMLETLSPDPSPLKVLMSHYEEAMGLSGHKLSFFDGTGLSGKELPADLGLSEGLDIEVWG

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 010900

ORF Size: 1236 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010900.3](#), [NP_035030.2](#)

RefSeq Size: 3388 bp

RefSeq ORF: 1239 bp

Locus ID: 18020

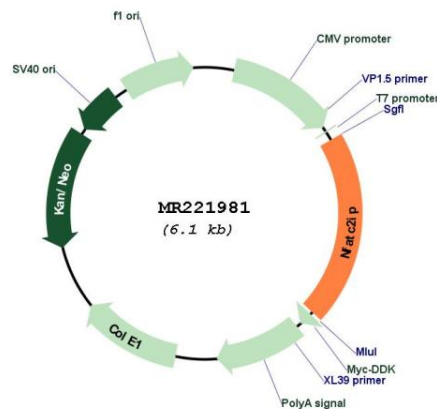
UniProt ID: [O09130](#)

Cytogenetics: 7 69.01 cM

MW: 45.1 kDa

Gene Summary: In T-helper 2 (Th2) cells, regulates the magnitude of NFAT-driven transcription of a specific subset of cytokine genes, including IL3, IL4, IL5 and IL13, but not IL2. Recruits PRMT1 to the IL4 promoter; this leads to enhancement of histone H4 'Arg-3'-methylation and facilitates subsequent histone acetylation at the IL4 locus, thus promotes robust cytokine expression. Down-regulates formation of poly-SUMO chains by UBE2I/UBC9.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221981