

## Product datasheet for **MG221981**

### **Nfatc2ip (NM\_010900) Mouse Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Nfatc2ip (NM_010900) Mouse Tagged ORF Clone                                 |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Nfatc2ip                                                                    |
| Synonyms:                 | D7Ert304e; NIP45                                                            |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >MG221981 representing NM_010900<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCCCGGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCG  
CCCGTGGCCGGTGTCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCCAGACACCGTGCTTGTGGACTT  
GGTCAGTGACAGCGACGAAGAGGTCTTGAAGTCGCAGACCCAGTAGAGGTGCCGGTCGCCCGCTCCCC  
GCGCCGGCTAAACCTGAGCAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGCTCGGGAGCCC  
CGCGTACATTGGTGCAGCGCGCGCGCGGCTGCTGGATCCCGAGAGGCGCCGGTGGTCCCAGTGTA  
CTCCGGGAAGGTACAGAGCAGCCTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA  
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCTGAGGATGATGCCCTGCCTTCAG  
GTTCTCCCTGGAGAAAGAAGCTCAGAAAGAAGTGTGAGAAAGAAGAAAGAAATGGAAGAGTTTCCGGA  
CCAGGACATCTCTCTTTGCCCAACCTTCGTCAAGGAACAAAAGCAGAAAGCATACGGAGGCGCTCCAG  
AAGCTAAGGGAAGTGAACAAGCGTCTCCAAGATCTCCGCTCTGCCTGAGCCCCAAGCAGCACCAGATC  
CAGCCCTTCAGAGCACAGATGATGAGGTGGTCTAGTGAAGGGCCTGTCTTGCCACAGAGCTCTCGACT  
CTTTACACTCAAGATCCGGTGCCGGGCTGACCTAGTGAGACTGCCTGTGAGGATGTCGGAGCCCCCTCAG  
AATGTGGTGGATCACATGGCCAATCATCTTGGGGTGTCTCCAAACAGGATTCTTTTGCTTTTGGAGAGA  
GTGAACTGTCTCTACTGCCACCCCTAGTACCCTAAAGCTTGGAGTGGCTGACATCATTGATTGTGTGGT  
GCTAGCAAGCTCTTCAGAGGCCACAGAGACATCCAGGAGCTCCGGCTCCGGGTGAGGGGAAGGAGAAA  
CACCAGATGTTGGAGATCTCACTGTCTCTGATTCTCTCTTAAGGTTCTCATGTACACTATGAGGAAG  
CCATGGGACTCTCTGGACACAAGCTCTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTGCC  
AGCTGATCTGGGCTGGAATCCGAGATCTCATCGAAGTCTGGGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221981 representing NM\_010900  
 Red=Cloning site Green=Tags(s)

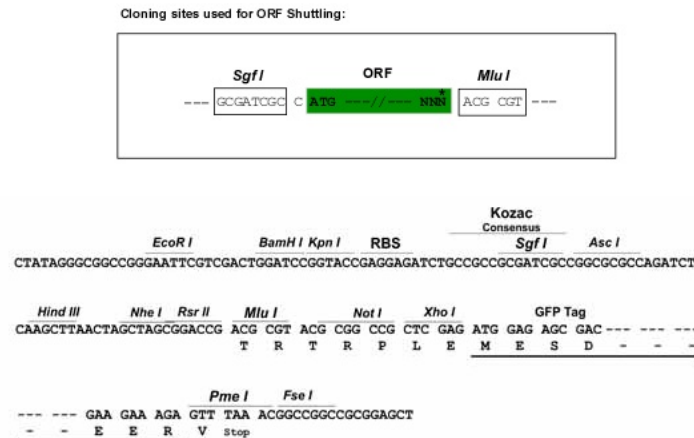
MAEPLRGRGPRSRGGRGARRARGARGRCPRARQSPARLIPDITVLVDLVSDSEEVLEVADPVEVPVARLP  
 APAKPEQDSDSDSEGAAGPAGAPRTLVRRRRRRLDPGEAPVVPVYSGKVQSSNLIPDNSSLLKLCPS  
 EPEDEADLTNSGSSPEDDALPSGSPWRKKLRKKCEKEEKMEEFPDQDISPLPQPSSRNKSRKHTEALQ  
 KLREVNKRLQDLRSLSPKQHQSPALQSTDDEVVLVEGPVLPQSSRLFTLKIRCRADLVRLPVRMSEPLQ  
 NVVDHMANHLGVSPNRIILLFGESELSPTATPSTLKLGVADIIDCVVLASSSEATETSQELRLRVQGEK  
 HQMLEISLSPDSPLKVLMSHYEAMGLSGHKLSFFFDGTLGKELPADLGLESGDLIEVWG

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**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

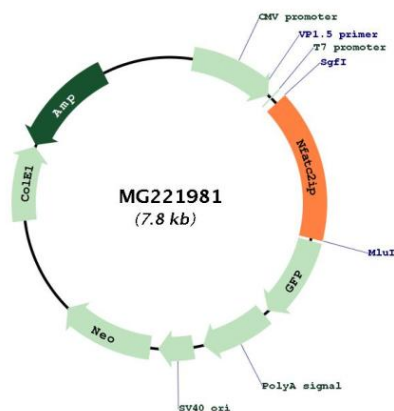
**Locus ID:** 18020

**UniProt ID:** [O09130](#)

**Cytogenetics:** 7 69.01 cM

**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 MG221981