

Product datasheet for **RG211004**

NFATC2IP (NM_032815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC2IP (NM_032815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFATC2IP
Synonyms:	ESC2; NIP45; RAD60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211004 representing NM_032815 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGCCTGTGGGAAGCGGGCCGCTGGTCCGAGGTAGCGGTGCCGGCCGAGGGGGTCGGGGCG
 GCTGGGGCGGTGGGGCCGGCGTCTCGGGCCAGCGGTCTCCATCCCGGGGCACGCTGGACGTAGTGTC
 TGTGGACTTGGTACCGACAGCGATGAGGAAATCTGGAGGTGCCACCGCTCGCGGTGCCGCGGACGAG
 GTTGAGGTGGAGCCCCGAGCCCCGGGGCCGGTCGCGTCCCGGATAACAGCAACAGTGACAGCGAAG
 GGGAGGACAGGCGCCCGCAGGACCCCGCGGAGCCGTCAGGCGGCGGCGGCTGGTCTGGATCC
 GGGGAGGCGCCGCTGGTTCGGGTGACTCGGGGAAGGTTAAAGCAGCCTTCGCCTTATCCAGATGAT
 CTATCCCTCCTGAACTCTACCTCCAGGGGATGAGGAAGAGGCAGAGCTGGCAGATTCGAGTGGTCTCT
 ACCATGAGGGCTCCCCATCACCAGGCTCTCCCTGGAAGACAAAGCTGAGGACTAAGGATAAAGAAGAGAA
 GAAAAAGACAGAGTTTCTGGATCTGGACAACCTCTCTGTCCCCACCTTACCAAGGACCAAAAGCAGA
 ACGCATACTCGGGCACTCAAGAAGTTAAGTGAGGTGAACAAGCGCTCCAGGATCTCCGTTCTGTCTGA
 GCCCAAGCCACCTCAGGGTCAAGAGCAACAGGGCCAAGAGGATGAAGTGGTCTTGGTGAAGGGCCAC
 CCTCCCAGAGACCCCCGACTCTTCCACTCAAATCCGTTGCCGGGCTGACCTGGTCAGATTGCCCTC
 AGGATGTCGGAGCCCCTGCAGAGTGTGGTGACCACATGGCCACCCACCTTGGGGTGTCCCAAGCAGGA
 TCCTTTTGCTTTTGGAGAGACAGAGCTATCACCTACTGCCACTCCAGGACCTAAAGCTCGGAGTGGC
 TGACATCATTGACTGTGTGGTACTAACAAGTTCTCCAGAGGCCACAGAGCGTCCCAACAGCTCCAGCTC
 CGGGTGCAGGGAAGGAGAAACACCAGACACTGGAAGTCTCACTGTCTCGAGATTCCTTCTAAAGACCC
 TCATGTCCCACTATGAGGAGGCCATGGGACTGTCGGGACGGAAGCTCTCCTTCTTTGATGGGACAAA
 GCTTTCAGGCAGGGAGCTGCCAGCTGACCTGGGCATGGAATCTGGGGACCTCATTGAGGTCTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG211004 representing NM_032815
 Red=Cloning site Green=Tags(s)

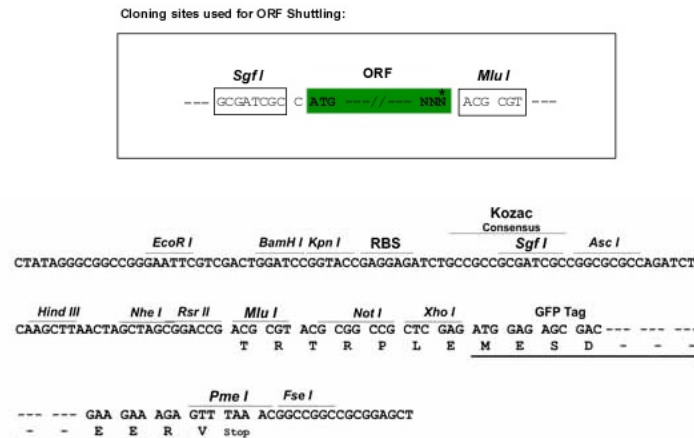
MAEPVGKRGRWSGGSGAGRGGGGRGRRPRAQRSPSRGTLDVVSVDLVTDSDDEEILEVATARGAADE
 VEVEPEPPPGPVASRDNNSDSEGEDRRPAGPPREPVRRRRLVLDPGEAPLVPVYSGKVKSSLRLIPDD
 LSLKLKLYPPGDEEEAELADSSGLYHEGSPSPGSPWTKLRTKDKKEKKTEFLDLDNSPLSPSPRTKSR
 THTRALKKLSEVNRKLQDLRSLSPKPPQGQEQQEQDEVVLVEGPTLPETPRLFPLKIRCADLVRLPL
 RMSEPLQSVVDHATHLGVSPSRILLFGETELSPATPRTLKLGVADIIDCVLTSSPEATETSQQLQL
 RVQGKEKHQTLEVSLSRDSPLKTLMSHYEAMGLSGRKL SFFFDGTLKSGREL PADLGMESGDLIEVWG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_032815

ORF Size: 1257 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_032815.3](#), [NP_116204.3](#)

RefSeq Size: 3877 bp

RefSeq ORF: 1260 bp

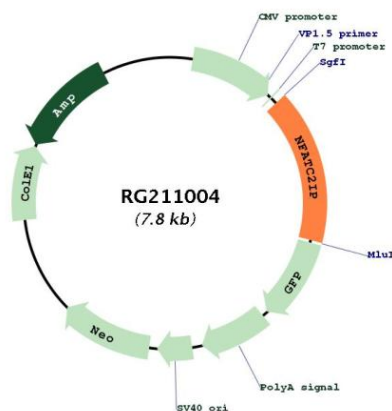
Locus ID: 84901

UniProt ID: [Q8NCF5](#)

Cytogenetics: 16p11.2

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 (By similarity). Down-regulates formation of poly-SUMO chains by UBE2I/UBC9 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211004