

Product datasheet for **MC209024**

Nfatc2ip (NM_010900) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc2ip (NM_010900) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nfatc2ip
Synonyms:	D7Ert304e; NIP45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209024 representing NM_010900 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCCCGGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCG
CCCGTGGCCGGTGTCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCCAGACACCGTGCTTGAGGACTT
GGTCAGTGACAGCGACGAAGAGGTCTTGAAGTCGCAGACCCAGTAGAGGTGCCGGTCGCCCGCCTCCCC
GCGCCGGCTAAACCTGAGCAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGCTCGGGAGCCC
CGCGTACATTGGTGCGACGGCGCGCGCGGGCTGCTGGATCCCGGAGAGGCGCCGGTGGTCCCAGTGTA
CTCCGGGAAGGTACAGAGCAGCCTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCTGAGGATGATGCCCTGCCTTCAG
GTTCTCCCTGGAGAAAGAAGCTCAGAAAGAAGTGTGAGAAAGAAGAAAGAAATGGAAGAGTTTCCGGA
CCAGGACATCTCTCTTTGCCCAACCTTCGTCAGGAACAAAAGCAGAAAGCATACGGAGGCGCTCCAG
AAGCTAAGGGAAGTGAACAAGCGTCTCCAAGATCTCCGCTCTGCCTGAGCCCCAAGCAGCACCAGATC
CAGCCCTTCAGAGCACAGATGATGAGGTGGTCTAGTGAAGGGCCTGTCTTGCCACAGAGCTCTCGACT
CTTTACACTCAAGATCCGGTGCCGGGCTGACCTAGTGAGACTGCCTGTGAGGATGTCGGAGCCCTTCAG
AATGTGGTGGATCACATGGCCAATCATCTTGGGGTGTCTCAAACAGGATTCTTTTGCTTTTGGAGAGA
GTGAAGTGTCTCTACTGCCACCCCTAGTACCCTAAAGCTTGGAGTGGCTGACATCATTGATTGTGTGGT
GCTAGCAAGCTCTTCAGAGGCCACAGAGACATCCAGGAGCTCCGGCTCCGGGTGAGGGGAAGGAGAAA
CACCAGATGTTGGAGATCTCACTGTCTCTGATTCTCTCTTAAGGTTCTCATGTCACTATGAGGAAG
CCATGGGACTCTCTGGACACAAGCTCTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTGCC
AGCTGATCTGGGCTGGAATCCGAGATCTCATCGAAGTCTGGGG**TA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_010900
Insert Size:	1239 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_010900.3, NP_035030.2</u>
RefSeq Size:	3388 bp
RefSeq ORF:	1239 bp
Locus ID:	18020
UniProt ID:	<u>O09130</u>
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]