

## Product datasheet for **MR210754**

### **Nfx1 (BC053709) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfx1 (BC053709) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfx1
Synonyms:	NFX.1, TEG-42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210754 representing BC053709  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGGCGCCTCCGGTCTCAGGCACTTTAAATTCATACAGATGCTGCTGAGTTCATTCCTCAGG  
 AGAGAAAACTTCTGGTCTAAATTGTGGGACCCAAAGAAGACTAGATTCTAGTAGGATTGGCAGAAGAAA  
 TTATAGTTCCTCGCCTCCTGTACACCTTCTAGACACATCCCTTATGAAGACATCTCTGCTGTTTCATCAG  
 CACAGTTATGCCTCTGGAAGCAAACCTAAGAGTCCCCAGGGTTTTTCCAGTCATCTAATAAATCACTCA  
 AGAACCATGGCCTTCAGAATCAGCCATGGCAGAAAGCAAGGAATGAAAAGCACAAAACAGAAAACAGAA  
 AGCACAAGGGCTCTCTGAGCAGACGTGAGATACATCTAGTTTAGAAAGTGTAGCCAGGTCAGAGAGTGGA  
 ACAAAACCCGAGAGACACAGCCCTCCGAGAGTGAGAAGGAGGTGGTTATCGCAGATCCCAGGGGAGCGA  
 AACCCAAAAAGCAGCACAGCTTACATACTAATGTCAGAGGACCAAAGGCCAAAGGGAGACTCAGAAG  
 CGAGTGGGGTAATAGAATGAGCCCAAAGTCTGAGGACGAAAATACCAGACCCGTGGCGATTTCCACACT  
 GACTCTTCAGATGCCTCCTGTAGAAAACCTGTAGTGGATCCATGTGTGTGTCAGGCCGAATGAGCAGAGAA  
 GATATCCCCAGAAAAGGCCTCCCTGGGAAGTAGAAGGGGCCAGACCACGGCCAGGAGGAACCCACCAAAA  
 ACAGGAGAGTCAGCGCATATAAATGCAGGGCCAAAACCAACATGCCCCCATTCCAAAGGATAATCTT  
 AGAGAAAGACCAACGAAGTCAGCCTGTGACACTGGGAATTTGGCAGTTGTCAGCAAGTCTTCGAGAAGGG  
 TTAACCAAGAGAAAACCTGCTGTAAAGGAGACAGGATCCCAAGTGTCTCTCTTTCCAGAGGCAAAACA  
 GAACCATATGCTGAAGAATGTGGAACACATACAGGTTCCCTGATTGAGCAGCTAACTACAGAAAAATAC  
 GAGTGTATGGTATGCTGTGAGTTGGTTCAGGTCACAGCCCCGGTGTGGAGCTGTGAGAGCTGTTTCATG  
 TCTTTTCACTGAACTGCATCAAGAAGTGGGCACGCTCTCCAGCATCGCATGCAGATGGCCAGAGTGGTTG  
 GAGGTGCCCTGCTTGTGAGAATGTTTCTGCACATGTTCCCAATACCTATACTTGTTCGTGGCAAAGTA  
 AAGAATCCTGAATGGAGCAGAAATGAAATTCACATAGTTGTGGTGGAGTTTGTAGAAAAGAACAGCCTG  
 GCCAGGACTGTCCACATTCCTGTAACCTTCTCTGCCATCCTGGACCCTGCCACCCTGCCCTGCTTTTAC  
 AACTAAAACATGTGAATGTGGACGGACCAGGCACACGGTTCGCTGTGGTCAAGCTGTCTCAGTCCACTGT  
 TCTAATGCATGTGAGAATATCTGAACTGTGGTCAAGCACCCTGTGCTGAGCTGTGCCATGGGGTCAAT  
 GCCAGCCTTGTGGATCATACTGAACCAGGTGTGCTACTGTGGCAGCACCTCCCGAGATGTGTTGTGGG  
 AACCGATGTGGGAAAGTCTGATGGATTTGGGACTTCAGCTGTTAAAGATATGTGGCAAGGACTTGAAG  
 TGTGGGAGCCATACCTGTTCTCAAGTTTCCACCCTCAGCCGTGTGAGCCTTGCCACGGCTCCCCATT  
 TGGTGGGATACTGCCCTCGCGGCCAAACACCTCTCAGCCAGTTGCTGGAACATGGAAGTAATGCTCGGAA  
 AACATGCATGGATCCTGTCCCTTCTGTGAAAAGTGTGTGGCAAACCTTGGCCTGTGGTTCTCAGAT  
 TTCATCCACACCTGTGAAAAGCTTTGCCATGAAGGAGACTGTGGGCCGTGCTCTCGCACATCAGTCATTT  
 CCTGCAGATGCTCCTCAGAACAAGGAACTTCCGTGTACCAGTCTTAAAGTGAAGATGCTACATTTAT  
 GTGCGACAACCGGTGTAACAAGAACGATTGTGCGGACGGCATAAATGTAACGAGATCTGCTGTGTGGAC  
 AAGGAGACAAGTGTCTTTGATTTGTGGGAGGAACTCCGCTGTGGCCTTCATCGGTGTGAAGAACCTT  
 GTCATCGAGGAACTGTGAGACCTGTGGCAAGCCAGCTTTGATGAATTAACCTGCCACTGTGGCGCCTC  
 TGTGATCTACCCACAGTTCCTGTGGACTAGGCCTCCTGAGTGTACCCAAACCTGTGCCAGGATCCAT  
 GAATGTACCATCCAGTATATCATTCTTGTGATAGCGAGGAGAAGTGTCCCCCTTGACTTTCCTAACTC  
 AGAAGTGGTGCATGGCAAGCATGAGAGACAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210754 representing BC053709  
Red=Cloning site Green=Tags(s)

MAEAPPVSGTFKFNTDAAEFIPQERKTSGLNCGTQRRLDSSRIGRRNYSSSPCHLPRHIPYEDISAVHQ  
HSYASGSKPKSPQGFQSSNKSLKNHGLQNQPWQKARNEKHQNRNKAQGLSEQTSSTLESVARSESG  
TNPREHSPSESEKEVVIADPRGAKPKKAAQLTYNYGRGPKAKGRLRSEWGNRMSPKSEDENTRPVAISHT  
DSSDASCRKPVVDPCVCRREQRYPQKRPPWEVEGARPRPGRNPPKQESQRHINAGPKTNMPPPIPKNL  
RERPTKSACDTGNLAVVSKSRRVNQEKTAVRRQDPQVLSPPFRGKQNHMLKNVETHTGSLIEQLTTEKY  
ECMVCCELVQVTAPVWSCQSCFHVHFLNCIKKWARSPASHADGQSGWRCPCQNVSAHVPNTYTFCGKV  
KNPEWSRNEIPHSCGEVCRKKQPGQDCPHSCNLLCHPGPCPPCPAFTTKTCECGRTRHTVRCGQPVSVHC  
SNACENILNCGQHHCAELCHGGQCQPCRIILNQVCYCGSTSRDVLCGTDVGKSDGFGDFSLKICGKDLK  
CGSHTCSQVCHPQPCQPCPRLPHLVRYCPRGQTPLSQLLEHGSNARKTCMDPVPSCGKVCVKPLACGSSD  
FIHTCEKLCHEGDCGPCSRTSVISCRCSFRTELKLPCTSLKSEDAFMCDKRCNKKRLCGRHKCNEICCV  
KEHKCPLICGRKLRGLHRCEEPCHRGNCQTCWQASFDELTCGASVIYPPVPCGTRPPECTQTCARIH  
ECDHPVYHSCHEEKCPPCTFLTQKWCMDGKHERQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9038\\_d07.zip](https://cdn.origene.com/chromatograms/mm9038_d07.zip)

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** BC053709

**ORF Size:** 2412 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:** [BC053709.1](#)

**RefSeq Size:** 3534 bp

**RefSeq ORF:** 2414 bp

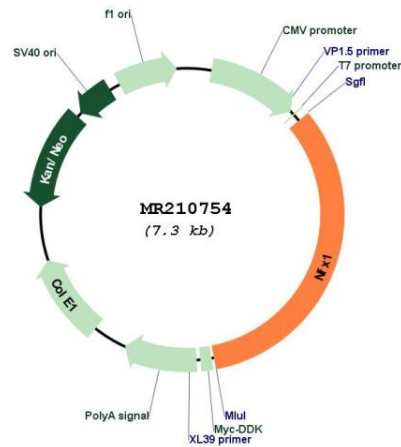
**Locus ID:** 74164

**Cytogenetics:** 4 20.72 cM

**MW:** 129.6 kDa

**Gene Summary:** Binds to the X-box motif of MHC class II genes and represses their expression. May play an important role in regulating the duration of an inflammatory response by limiting the period in which MHC class II molecules are induced by interferon-gamma. Together with PABPC1 or PABPC4, acts as a coactivator for TERT expression. Mediates E2-dependent ubiquitination. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR210754