

Product datasheet for **MG210754**

Nfx1 (BC053709) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfx1 (BC053709) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfx1
Synonyms:	NFX.1, TEG-42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210754 representing BC053709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGGCGCCTCCGGTCTCAGGCACTTTTAAATTCATACAGATGCTGCTGAGTTCATTCCTCAGG
 AGAGAAAACTTCTGGTCTAAATTGTGGGACCCAAAGAAGACTAGATTCTAGTAGATTGGCAGAAGAAA
 TTATAGTTCCTCGCCTCCCTGTACACCTTCTAGACACATCCCTTATGAAGACATCTCTGCTGTTTCATCAG
 CACAGTTATGCCTCTGGAAGCAAACCTAAGAGTCCCCAGGGTTTTTCCAGTCATCTAATAAATCACTCA
 AGAACCATGGCCTTCAGAATCAGCCATGGCAGAAAGCAAGGAATGAAAAGCACAAAAACAGAAAACAGAA
 AGCACAAAGGGCTCTCTGAGCAGACGTGAGATACATCTAGTTTAGAAAAGTGTAGCCAGGTCAGAGAGTGG
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 GAGTGTATGGTATGCTGTGAGTTGGTTCAGGTCACAGCCCCGGTGTGGAGCTGTGAGAGCTGTTTCATG
 TCTTTTCATCTGAACTGCATCAAGAAGTGGGCACGCTCTCCAGCATCGCATGCAGATGGCCAGAGTGGTTG
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 AAGAATCCTGAATGGAGCAGAAATGAAATTCACATAGTTGTGGTGGAGTTTGTAGAAAAGAACAGCCTG
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 AACTAAAACATGTGAATGTGGACGGACCAGGCACACGGTTCGCTGTGGTCAAGCCTGTCTCAGTCCACTGT
 TCTAATGCATGTGAGAATATCTGAACTGTGGTCAAGCACCCTGTGCTGAGCTGTGCCATGGGGTCAAT
 GCCAGCCTTGTGGATCATACTGAACCAGGTGTGCTACTGTGGCAGCACCTCCCAGATGTGTTGTGTGG
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 TGTGATCTACCCACAGTTCCTGTGGGACTAGGCCTCCTGAGTGTACCCAAACCTGTGCCAGGATCCAT
 GAATGTACCATCCAGTATATCATTCTTGTGATAGCGAGGAGAAGTGTCCCCCTTGACTTTCCTAACTC
 AGAAGTGGTGCATGGCAAGCATGAGAGACAA

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

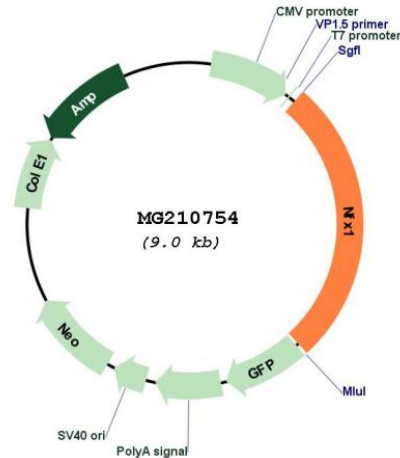
Protein Sequence: >MG210754 representing BC053709
Red=Cloning site Green=Tags(s)

MAEAPPVSGTFKFNTDAAEFIPQERKTSGLNCGTQRRLDSSRIGRRNYSSSPPCHLPRHIPYEDISAVHQ
HSYASGSKPKSPQGFQSSNKSLKNHGLQNQPWQKARNEKHQNRNKAQGLSEQTSSTLESVARSESG
TNPREHSPSESEKEVVIADPRGAKPKKAAQLTYNYGRGPKAKGRLRSEWGNRMSPKSEDENTRPVAISHT
DSSDASCRKPVVDPCVCRREQRYPQKRPPWEVEGARPRPGRNPPKQESQRHINAGPKTNMPPPIPKNL
RERPTKSACDTGNLAVVSKSRRVNQEKTAARRQDPQVLSPPFRGKQNHMLKNVETHTGSLIEQLTTEKY
ECMVCCELVQVTAPVWSCQSCFHVHFLNCIKKWARSPASHADGQSGWRCPCQNVSAHVPNTYTFCGKV
KNPEWSRNEIPHSCGEVCRKKQPGQDCPHSCNLLCHPGPCPPCPAFTTKTCECGRTRHTVRCGQPVSVHC
SNACENILNCGQHHCAELCHGGQCQPCRIILNQVCYCGSTSRDVLCGTDVGKSDGFGDFSLKICGKDLK
CGSHTCSQVCHPQPCPCPRLPHLVRYCPRGQTPLSQLLEHGSNARKTCMDPVPSCGKVCVKPLACGSSD
FIHTCEKLCHEGDCGPCSRTSVISCRCSFRTELKLPCTSLKSEDAFMCDKRCNKKRLCGRHKCNEICCV
KEHKCPLICGRKLRGLHRCEEPCHRGNCQTCWQASFDELTCGASVIYPPVPCGTRPPECTQTCARIH
ECDHPVYHSCHEEKCPCTFLTQKWCMMGKHERQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Plasmid Map:



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

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]