

Product datasheet for **RG204249**

NFX1 (NM_002504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFX1 (NM_002504) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFX1
Synonyms:	NFX2; TEG-42; Tex42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204249 representing NM_002504 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGCGCCTCTGTCTCAGGACTTTTAAATTCATACAGATGCTGCTGAATTCATTCCTCAGG
AGAAAAAATTCTGGTCTAAATGTGGGACTCAAAGGAGACTAGACTCTAATAGGATTGGTAGAAGAAA
TTACAGTTCACCACCTCCCTGTACCTTTCCAGGCAGGTCCTTATGATGAAATCTCTGCTTTCATCAG
CATAGTTATCATCCGTCAGGAAGCAAACCTAAGAGTCAGCAGACGCTTTCCAGTCTCTCCTTGAATA
AATCGCCAAGAGCCATGGCCTTCAGAATCAACCTTGGCAGAAATGAGGAATGAGAAGCACCATATCAG
AGTCAAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGATACAGCTGGATTAGAGAGCTCGACCAGATCA
GAGAGTGGGACAGACCTCAGAGAGCATAGTCTTCTGAGAGTGAGAAGGAAGTTGTGGGTGCAGATCCCA
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ACTCAAATGTGAATGGAGTAACCGAACAACCTCCAAAACCGGAGGATGCTGGACCCGAAAGTACCAAACCT
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TTTCTCCCGAGGCAAAACAGAACCATGTGCTAAAGAATGTGGAACGCACACAGGTTCTCTAATTGAACAA
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GTCAGAGCTGTTACCATGTGTTTCATTTGAACTGCATAAAGAAATGGGCAAGGCTCCAGCATCTCAAGC
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GCTGTCTCAGTCCACTGTTCTAACCCATGTGAGAATATTTTGAAGTGTGGTCAGCACCAGTGTGCTGAGC
TGTGCCATGGGGTCACTGCCAGCCTTGCAGATCATTTTGAACCAGGTATGCTATTGCGGCAGCACCTC
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GTGTGCTTGAAGGGAAAATGCAGGCACGGCCTCCACCACCGATTCTCATCACAGACATCAGTCAGACAA
GAATCCTGGGAGCAGTAATTTACAGAAAATAACCAAGGAGCCAATAATTGACTATTTTGCAGTCCAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204249 representing NM_002504
Red=Cloning site Green=Tags(s)

MAEAPPVSGTFKFNDAEFIPQEKKNSGLNCGTQRRLDNRIGRRNYSSPPPCHLSRQVPYDEISAVHQ
HSYHPSGSKPKSQTSFQSSPCNKSPKSHGLQNPWQKLRNEKHHIRVKKAAQSLAEQTSDTAGLESSTRS
ESGTDLREHSPSESEKEVVGADPRGAKPKKATQFVYSYGRGPKVKGLKCEWSNRTPKPEDAGPESTKP
VGVFHPDSEASSRKGVL DGYGARRNEQRRYPQKRPPWEVEGARPRPGRNPPKQEGHRHTNAGHRNMMGP
IPKDDLNERPAKSTCDSENLA VINKSSRRVDQEKCTVRRQDPQVVSPPFSRGKQNHV LKNVETHTGSLIEQ
LTTEKYE C MVCCELVRVTAPVWSCQSCYHVFHLNCIKKWARS PASQADGQSGWRCPACQNVSAHPNTYT
CFCGKVKNPEWSRNEIPHSCGEVCRKKQPGQDCPHSCNLLCHPGPCPPCPAFMTKTCEGRTRHTVRCGQ
AVSVHCSNPCENILNCGQHQAELCHGGQCQPCQIILNQVCYCGSTSRDVLCGTDV GKSDFGDF SCLKI
CGKDLKCGNHTCSQVCHPQPCQCPRLPQLVRCCPCGQTPLSQLLELGSSSRKTCMDPVVPCGKVCCKPL
PCGSLDFIHTCEKLCHEGDCGPCSRTSVISCRCSFRTELKELPCTSLKSEDA TFMCDKRCNKKRLCGRHKCN
EICCVDKEHKCLICGRKLRGLHRCEEPCHRGNCQTCWQASFDEL TCHCGASVIYPPVPCGTRPPECTQ
TCARVHECDHPVYHSCHEEKCPPTFLTQKWC MGKHEFRSNIPCHLVDI SCGLPCSATLPCGMHKCQRL
CHKGECLVDEPCKQPCTTPRADCGHPCMAPCHTSSPCPVTACKAKVELQCEGRRKEMVICSEASSTYQR
IAAISMA SKITDMQLGGSVEISKLITKKEVHQARLECEDECSALERKKRLAEAFHISEDSDPFNIRSSGS
KFSDSLKEDARKDLKFVSDVEKEMETLVEAVNKGNKSKSHSFPMPNDRHRIIHDLAQVYGLESVSYDS
EPKRNVVVTAIRGKSVCPPTTLTGVLEREMQARPPPIPHHRHQSDKNPGSSNLQKITKEPIIDYFDVQD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002504

ORF Size: 3360 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: [NM_002504.6](#)

RefSeq Size: 4629 bp

RefSeq ORF: 3363 bp

Locus ID: 4799

UniProt ID: [Q12986](#)

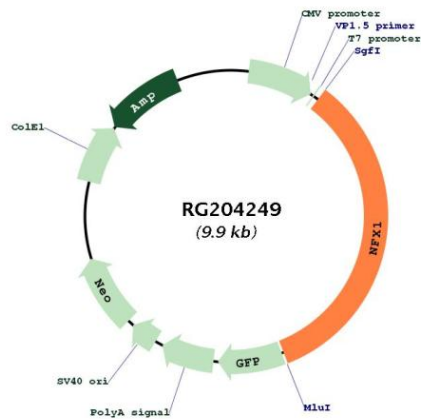
Cytogenetics: 9p13.3

Domains: zf-NF-X1, R3H

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: MHC class II gene expression is controlled primarily at the transcriptional level by transcription factors that bind to the X and Y boxes, two highly conserved elements in the proximal promoter of MHC class II genes. The protein encoded by this gene is a transcriptional repressor capable of binding to the conserved X box motif of HLA-DRA and other MHC class II genes in vitro. The protein may play a role in regulating the duration of an inflammatory response by limiting the period in which class II MHC molecules are induced by IFN-gamma. Three alternative splice variants, each of which encodes a different isoform, have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204249