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CN: techsupport@origene.cn

Product datasheet for RC204249

NFX1 (NM_002504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFX1 (NM_002504) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFX1
Synonyms:	NFX2; TEG-42; Tex42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204249 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGCGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATTCATTCCTCAGG
AGAAAAAAAATTCTGGTCTAAATTGTGGGACTCAAAGGAGACTAGACTCTAATAGGATTGGTAGAAGAAA
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GAGAGTGGGACAGACCTCAGAGAGCATAGTCCTTCTGAGAGTGAGAAGGAAGTTGTGGGTGCAGATCCCA
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ACCCTGCCCTGCCTTTATGACAAAAACATGTGAATGTGGACGAACCAGGCACACAGTTCGCTGTGGTCAG

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GCTGTCTCAGTCCACTGTTCTAACCCATGTGAGAATATTTTGAACTGTGGTCAGCACCAGTGTGCTGAGC
TGTGCCATGGGGGTCAGTGCCAGCCTTGCCAGATCATTTTGAACCAGGTATGCTATTGCGGCAGCACCTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204249 protein sequence
Red=Cloning site Green=Tags(s)

MAEAPPVSGTFKFNTDAAEFIPQEKKNSGLNCGTQRRLDSNRIGRRNYSSPPPCHLSRQVPYDEISAVHQ
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VGVFHPDSSEASSRKGVLDGYGARRNEQRRYPQKRPPWEVEGARPRPGRNPPKQEGHRHTNAGHRNNMGP
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LTTEKYECMVCCELVRVTAPVWSCQSCYHVFHLNCIKKWARSPASQADGQSGWRCPACQNVSAHVPNTYT
CFCGKVKNPEWSRNEIPHSCGEVCRKKQPGQDCPHSCNLLCHPGPCPPCPAFMTKTCECGRTRHTVRCGQ
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EICCVDKEHKCPLICGRKLRCGLHRCEEPCHRGNCQTCWQASFDELTCHCGASVIYPPVPCGTRPPECTQ
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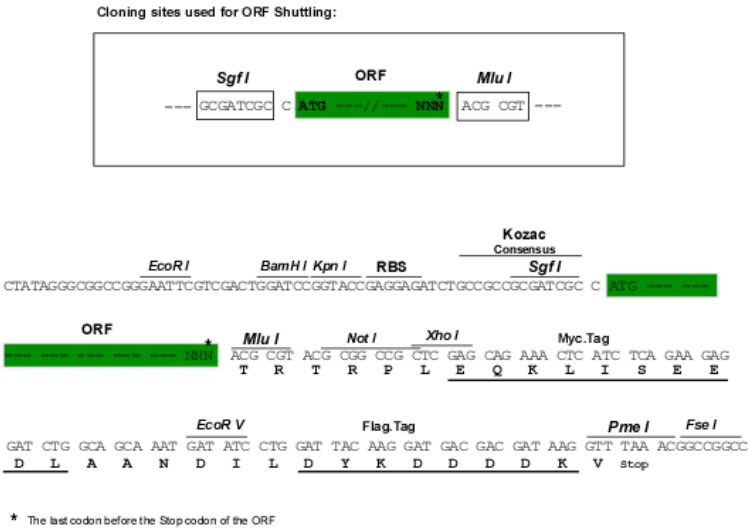
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6204_e08.zip

Restriction Sites: SgfI-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.

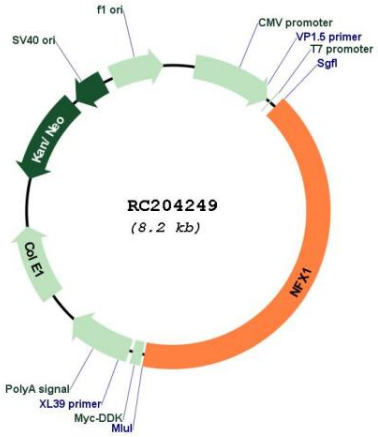
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_002504.6

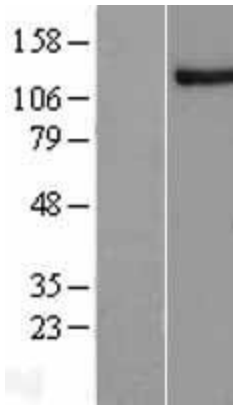
RefSeq Size: 4721 bp

RefSeq ORF:	3363 bp
Locus ID:	4799
UniProt ID:	Q12986
Cytogenetics:	9p13.3
Domains:	zf-NF-X1, R3H
Protein Families:	Druggable Genome, Transcription Factors
MW:	124.4 kDa
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 RC204249



Western blot validation of overexpression lysate (Cat# [LY400892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204249 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).