

## Product datasheet for **MR209464**

### **Nxf1 (NM\_016813) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nxf1 (NM_016813) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nxf1
Synonyms:	Mex67; Mvb1; Tap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209464 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACGAAGGGAAGTCATACAACGAGCATGATGACCGTGTAGTTCCCTCAAAGAAGAAAGAAAG  
 GCCGGGGCCTTTCCGATGGAAGTGTGGTGAGGGGAATCGTAGGTCTGGAAGAGGTGTTCTGGTGTACA  
 GTCTTCCCGATTTGAGGAAGATGATGGCGATGTAGCAATGAATGATCCCCAGGATGGCCCCGAGTAAGA  
 TACAATCCCTATACCAACCGGCCTAATCGTCGGGGAGATGGTTGGCATGATCGAGATCGAATTCATATTA  
 CTGTACGGAGAGACAGAGCTCCTGCAGAGAGAGGGGGCTGGCACCAGTCAAGATGGGACCACCAAGAA  
 CTGTTTCAAGATTACAATTCCTTATGGTAGAAAGTATGACAAAACGTGGCTTCTGAGCATGATTCAGAGC  
 AAATGCAGTGTCCCTTCAATCCATCGAGTTTCACTATGAAAAACACGGGCCATTTTTTTGTGGAGG  
 ATGCCACTACTGTTCTGCATTAAGGGTGTCAACCATAAGATCCAGGATCGAGAAAACAGAAGGATATC  
 TATCATCATCAATGCTTCTGCTCCACCCTACACTGTACAGAATGAACTGAAGCCCGAACAATAGAGCAG  
 CTAAGCTGATCATGAGCAAACGATATGATGGCAACCAACAGCACTTGACCTCAAGGGGCTCCGCCTCAG  
 ACCCAGATTTGGTGGCCAGAACATCGATGTTGTTCTAAACCGCAGAAGCTGTATGGCAGCCACCCTGCG  
 GATCATTGAAGAGAACATTCTGAGCTATTGTCTTTGAACTTGAGCAGCAACAGGCTATACAAGCTGGAT  
 GATATGTCTAGCATTGTGCAGAAGGCGCCAAACCTAAAGACCCTAAATCTCTCCGGAAACGAATTGAAGA  
 CTGAGCGGGAATTAGACAAGATAAAAGGGCTGAAGCTGGAAGAGCTGTGGCTTGACAGAAAACCCATGTG  
 TGACAACCTCGGAGACCAGTCCAGCTATATCAGCGCCATTCGCGAACGATTTCCCAAGTTATTACGCCTG  
 GATGGCCATGAGTACCCCTCAATTTCTTTGATGTGGAAGCCCTACAATGTTACCACCCTGCAAGG  
 GAAGCTATTTTGAACCGAGAACCCTAAAGAGCTGGTCTGCGCTTCTTGACAGCATATGTAATTTA  
 TGACTCAGGAGACCGCCAGGGTCTCCTGTATGCCTACCATGATGGCGCCTGTTGCTCGCTAAGCATTCT  
 TACAACCTCAGAATCCTGTCCGAAAAAAGTCTAGCTGAATATGTCAAAGACAGCAGAAATGTGAAGAAGC  
 TTAAGAACCACCCAGCGGTTCCGACTCTAAAGCATACACGTCTTAATGTCGTTGCCTTCTCAATGA  
 GTTACCCAAAACCTCAACATGACGTTAACGCCTTCGTGGTAGATATAAGTGCCCAAACAAGCACATTACTG  
 TGTTTTCTGTCAATGGAGTCTCAAGGAAGTGGATGGGAAGTCTCGAGATTCTTTACGTGCTTTCACAA  
 GAACGTTCAATGCTGTTCTGCCAGCAATTCAGGGCTATGATTGTAATGATGAATTATTTGTGCGGAA  
 TGCCAGCCCTGAAGAAATCCAAAGAGCCTTCGCCATGTCTGCACCCACACCTTCTCCAGTCCAGTACCC  
 ACGCTTTCCCGAACAGCAGGAAATGTTGCAAGCATTCTACCCAGTCTGGCATGAACCTTGAGTGGT  
 CTCAGAAGTGCCTTCAAGACAATAACTGGGACTACACCAGATCTGCTCAGGCCTTCACTTCTCAAGGC  
 CAAGGGAGAGATTCCAGAAGTAGCGTTTATGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209464 protein sequence  
 Red=Cloning site Green=Tags(s)

MADEGKSYNEHDDRVSFPQRRKKGRGPFWRKCGEGNRRSGRGGSGVQSSRFEEDDGDVAMNDPQDGPVRV  
 YNPYTNRPNRRGDGWHDRDRIHITVRRDRAPAERGGAGTSQDGTKNWFKITIPYGRKYDKTWLLSMIQS  
 KCSVPFNPIEFHYENTRAHFFVEDATTASALKGVNHKIQDRENRRISIIINASAPPYTVQNELKPEQIEQ  
 LKLIMSKRYDGNQALDLKGLRSDPDLVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNRLYKLD  
 DMSSIVQKAPNLKTLNLSGNELKTERELDKIKGLKLEELWLDNRNPMCDNFGDQSSYISAIRERFPKLLRL  
 DGHLPPIISFDVEAPTMLPPCKGSYFGTENLKSLVLRFLQYYVIYDSGDRQGLLYAYHDGACCSLSIP  
 YNPQNPVRKNLAEYVKDSRNVKLLKEPTQRFRLKHTRLNVVAFNLNLPKTQHDVNAFVVDISAQTSTLL  
 CFSVNGVFKEVDGKSRDSLRAFTRTFIAVPASNSGLCIVNDELFRVNASPEEIQRAFAMSAPTPSSSPVP  
 TLSPEQQEMLQAFSTQSGMNLWSQKCLQDNNWDYTRSAQAFLLKAKGEIPEVAFMK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_016813

ORF Size: 1857 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\\_016813.2](#), [NP\\_058093.2](#)

RefSeq Size: 2312 bp

RefSeq ORF: 1857 bp

Locus ID: 53319

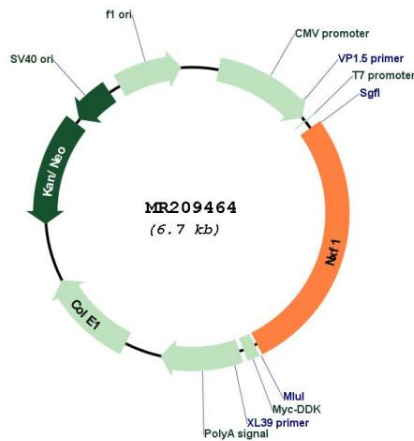
UniProt ID: [Q99JX7](#)

**Cytogenetics:** 19 5.5 cM

**MW:** 70.3 kDa

**Gene Summary:** Involved in the nuclear export of mRNA species bearing retroviral constitutive transport elements (CTE) and in the export of mRNA from the nucleus to the cytoplasm (TAP/NFX1 pathway). The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in conjunction with ALYREF/THOC4 and THOC5 components of the TREX complex. ALYREF/THOC4-bound mRNA is thought to be transferred to the NXF1-NXT1 heterodimer for export. Also involved in nuclear export of m6A-containing mRNAs: interaction between SRSF3 and YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209464