

Product datasheet for **MC227594**

Nxf1 (NM_001276704) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nxf1 (NM_001276704) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nxf1
Synonyms: Mex67; Mvb1; Tap
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227594 representing NM_001276704
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGACGAAGGAAGTCATACAACGAGCATGATGACCGTGTAGTTCCCTCAAAGAAGAAAGAAAG
GCCGGGGCCCTTCCGATGGAAGTGTGGTGAAGGGAATCGTAGGTCTGGAAGAGGTGTTCTGGTGTACA
GTCTTCCCGATTTGAGGAAGATGATGGCGATGTAGCAATGAATGATCCCCAGGATGGCCCCGAGTAAGA
TACAATCCCTATACCAACCGGCCTAATCGTCGGGGAGATGGTTGGCATGATCGAGATCGAATTCATATTA
CTGTACGGAGAGACAGAGCTCCTGCAGAGAGAGGGGGCTGGCACCAGTCAAGATGGGACCACCAAGAA
CTGGTTCAAGATTACAATTCCTTATGGTAGAAAGTATGACAAAACGTGGCTTCTGAGCATGATTCAGAGC
AAATGCAGTGTCCCCTTCAATCCCATCGAGTTTCACTATGAAAATACACGGGCCATTTTTTTGTGGAGG
ATGCCACTACTGCTTCTGCATTAAGGGTGTCAACCATAAGATCCAGGATCGAGAAAACAGAAGGATATC
TATCATCATCAATGCTTCTGCTCCACCCTACACTGTACAGAATGAACTGAAGCCCGAACAATAGAGCAG
CTCAAGCTGATCATGAGCAAACGATATGATGGCAACCAACAAGCACTTGACCTCAAGGGGCTCCGCTCAG
ACCCAGATTTGGTGGCCAGAACATCGATGTTGTTCTAAACCGCAGAAGCTGTATGGCACCACCCTGGC
GATCATTGAAGAGAACATTCCTGAGCTATTGTCTTTGAACTTGAGCAGCAACAGGCTATACAAGCTGGAT
GATATGTCTAGCATTGTGCAAGAAGGCGCCAAACCTAAAGACCCTAAATCTCTCCGAAAACGAATTGAAGA
CTGAGCGGGAATTAGACAAGATAAAAAGGGCTGAAGCTGGAAGAGCTGTGGCTTGACAGAAAACCCATGTG
TGACAACCTCGGAGACCAGTCCAGCTATATCAGGTCAAGTGTAGCCTCTGTCTCCCTCTGGGGACATT
CACCCCTGGGAGGCTGAGCTCATGCACCCTGACCAGTGCCCGTCTACAGGAGAACATGCAGCCCTGAGCT
GGAACCACCTGTTCTTTGGGAGGAGGATCATGTATTCTTTCTGCCTGTCTGTTGTCTCCTAGCTCTGTC
CCAGATCTCTTTCTTCTCACCTGACTTCTGTTCTCTAGTTCTGGCCTTCTCCTTCTTTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001276704
Insert Size:	1257 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001276704.1</u> , <u>NP_001263633.1</u>
RefSeq Size:	4035 bp
RefSeq ORF:	1257 bp
Locus ID:	53319
Cytogenetics:	19 5.5 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate internal segment and transcription extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>