

Product datasheet for **MG209464**

Nxf1 (NM_016813) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nxf1 (NM_016813) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nxf1
Synonyms:	Mex67; Mvb1; Tap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209464 representing NM_016813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGAAGGAAGTCATACAACGAGCATGATGACCGTGTAGTTCCCTCAAAGAAGAAAGAAAG
 GCCGGGGCCTTTCCGATGGAAGTGTGGTGAGGGGAATCGTAGGTCTGGAAGAGGTGTTCTGGTGTACA
 GTCTTCCCGATTTGAGGAAGATGATGGCGATGTAGCAATGAATGATCCCCAGGATGGCCCCGAGTAAGA
 TACAATCCCTATACCAACCGGCCTAATCGTCGGGGAGATGGTTGGCATGATCGAGATCGAATTCATATTA
 CTGTACGGAGAGACAGAGCTCCTGCAGAGAGAGGGGGCTGGCACCAGTCAAGATGGGACCACCAAGAA
 CTGTTTCAAGATTACAATTCCTTATGGTAGAAAGTATGACAAAACGTGGCTTCTGAGCATGATTCAGAGC
 AAATGCAGTGTCCCTTCAATCCATCGAGTTTCACTATGAAAAACACGGGCCATTTTTTTTGGGAGG
 ATGCCACTACTGTTCTGCATTAAGGGTGTCAACCATAAGATCCAGGATCGAGAAAACAGAAGGATATC
 TATCATCATCAATGCTTCTGCTCCACCCTACACTGTACAGAATGAACTGAAGCCCGAACAATAGAGCAG
 CTAAGCTGATCATGAGCAAACGATATGATGGCAACCAACAGCACTTGACCTCAAGGGGCTCCGCCTCAG
 ACCCAGATTTGGTGGCCAGAACATCGATGTTGTTCTAAACCGCAGAAGCTGTATGGCAGCCACCCTGCG
 GATCATTGAAGAGAACATTCTGAGCTATTGTCTTTGAACTTGAGCAGCAACAGGCTATACAAGCTGGAT
 GATATGTCTAGCATTGTGCAGAAGGCGCCAAACCTAAAGACCCTAAATCTCTCCGGAAACGAATTGAAGA
 CTGAGCGGGAATTAGACAAGATAAAAAGGGCTGAAGCTGGAAGAGCTGTGGCTTGACAGAAAACCCATGTG
 TGACAACCTCGGAGACCAGTCCAGCTATATCAGCGCCATTCGCGAACGATTTCCCAAGTTATTACGCCTG
 GATGGCCATGAGTACCCCTCAATTTCTTTGATGTGGAAGCCCTACAATGTTACCACCTGCAAGG
 GAAGCTATTTTGAACCGAGAACCTAAAGAGCTGTGGCTCTTTCGAGCAGTACTATGTAATTTA
 TGACTCAGGAGACCGCCAGGGTCTCCTGTATGCCTACCATGATGGCGCCTGTTGCTCGCTAAGCATTCT
 TACAACCTCAGAATCCTGTCCGAAAAAAGCTAGCTGAATATGTCAAAGACAGCAGAAATGTGAAGAAGC
 TTAAGAACCACCCAGCGGTTCCGACTCTAAAGCATACACGTCTTAATGTCGTTGCCTTCTCAATGA
 GTTACCCAAAACCTCAACATGACGTTAACGCCTTCGTGGTAGATATAAGTGCCCAAACAAGCACATTACTG
 TGTTTTCTGTCAATGGAGTCTTCAAGGAAGTGGATGGGAAGTCTCGAGATTCTTTACGTGCTTTCACAA
 GAACGTTCAATTGCTGTTCTGCCAGCAATTCAGGGCTATGATTGTAATGATGAATTATTTGTGCGGAA
 TGCCAGCCCTGAAGAAATCCAAAGAGCCTTCGCCATGTCTGCACCCACACCTTCTCCAGTCCAGTACCC
 ACGCTTTCCCGAAGCAGCAGGAAATGTTGCAAGCATTCTACCCAGTCTGGCATGAACCTTGAGTGGT
 CTCAGAAGTGCCTTCAAGACAATAACTGGGACTACACCAGATCTGCTCAGGCCTTCACTTCTCAAGGC
 CAAGGGAGAGATTCCAGAAGTAGCGTTTATGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209464 representing NM_016813
 Red=Cloning site Green=Tags(s)

MADEGKSYNEHDDRVSFPQRRKKGRGPFWRWKCEGNRRSGRGGSGVQSSRFEEDDGDVAMNDPQDGPRVR
 YNPYTNRPNRRGDGWHDRDRIHITVRRDRAPAERGGAGTSQDGTTKNWFKITIPYGRKYDKTWLLSMIQS
 KCSVPFNPPIEFHYENTRAHFFVEDATTASALKGVNHKIQDRENRRISIIINASAPPYTVQNELKPEQIEQ
 LKLIMSKRYDGNQALDLKGLRSDPDLVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNRLYKLD
 DMSSIVQKAPNLKTLNLSGNELKTERELDKIKGLKLEELWLDNRNPMCDNFGDQSSYISAIRERFPKLLRL
 DGHELPPPIISFDVEAPTMLPPCKGSYFGTENLKSLLVLRFLQYYVIYDSGDRQGLLYAYHDGACCSLSIP
 YNPQNPVRKNLAEYVKDSRNVKLLKEPTQRFRLKHTRLNVVAFNLNLPKTQHDVNAFVVDISAQTSTLL
 CFSVNGVFKEVDGKSRDSLRAFTRTFIAVPASNSGLCIVNDEL FVRNASPEEIQRAFAMSAPTPSSSPVP
 TLSPEQQEMLQAFSTQSGMNLWSQKCLQDNNWDYTRSAQAFLLKAKGEIPEVAFMK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	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
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]