

Product datasheet for MR229805

Nxf1 (NM_001276704) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nxf1 (NM_001276704) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nxf1
Synonyms:	Mex67; Mvb1; Tap
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229805 representing NM_001276704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACGAAGGAAGTCATACAACGAGCATGATGACCGTGTAGTTCCCTCAAAGAAGAAAGAAAG
GCCGGGGCCCTTCCGATGGAAGTGTGGTGAGGGGAATCGTAGGCTGGAAGAGGTGTTCTGGTGTACA
GTCTTCCCGATTTGAGGAAGATGATGGCGATGTAGCAATGAATGATCCCCAGGATGGCCCCGAGTAAGA
TACAATCCCTATACCAACCGGCCTAATCGTCGGGGAGATGGTTGGCATGATCGAGATCGAATTCATATTA
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CTGGTTCAAGATTACAATTCCTTATGGTAGAAAGTATGACAAAACGTGGCTTCTGAGCATGATTCAGAGC
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CACCCCTGGGAGGCTGAGCTCATGCACCCTGACCAGTGCCCGTCTACAGGAGAACATGCAGCCCTGAGCT
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CCAGATCTCTTTCTTCTCACCTGACTTCTGTTCTCTAGTTCTGGCCTTTCTCCTTCTTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR229805 representing NM_001276704
Red=Cloning site Green=Tags(s)

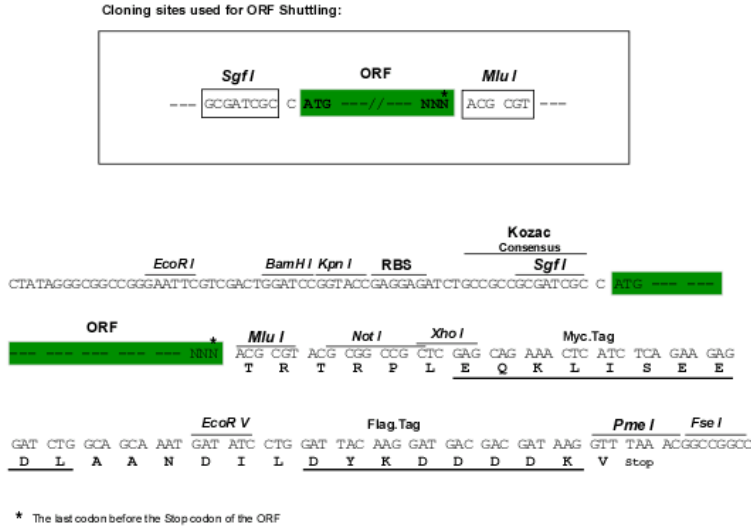
MADEGKSYNEHDDRVSFPQRRKKGRGPFWRKCGEGNRRSGRGGSGVQSSRFEEDDGDVAMNDPQDGPRVR
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 KCSVPFNPIEFHYENTRAHFFVEDATTASALKGVNHIQDRENRRIISIIINASAPPYTVQNELKPEQIEQ
 LKLIMSKRYDGNQALDLKGLRSDPDLVAQNIDVVLRNRRSCMAATLRIIEENIPELLSLNLSSNRLYKLD
 DMSSIVQKAPNLKTLNLSGNELKTERELDKIKGLKLEELWLDNRNPMCDNFGDQSSYIRSVMASVSPPGDI
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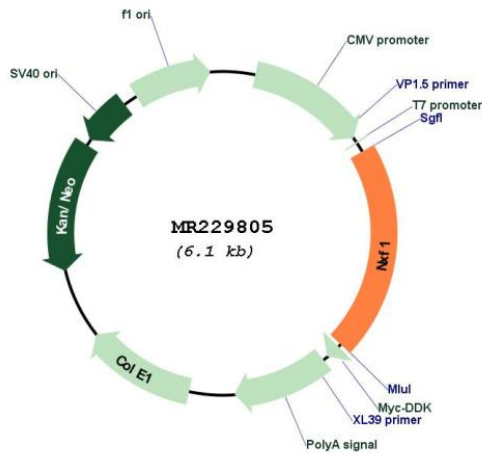
Restriction Sites:

HgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001276704

ORF Size:	1254 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:	<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_001276704.1 , NP_001263633.1
RefSeq Size:	4035 bp
RefSeq ORF:	1257 bp
Locus ID:	53319
Cytogenetics:	19 5.5 cM
MW:	48.1 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]