

## Product datasheet for **SC116148**

### **NXF1 (NM\_006362) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NXF1 (NM_006362) Human Untagged Clone
Tag:	Tag Free
Symbol:	NXF1
Synonyms:	MEX67; TAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116148 sequence for NM\_006362 edited (data generated by NextGen Sequencing)

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ATGGCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTAAATTTCCCTCAA
AGAAAGAAGAAAGGCCGGGTCCCTTCCGGTGAAATATGGTGAAGGAAACCGTAGGTCT
GGAAGAGGCGGTTCTGGTATTCGGTCTTCCCGCTTGAGGAAGATGATGGAGATGTGGCA
ATGAGTGATGCCAGGATGGTCCCCGAGTACGATACAACCCCTATACCACCCGACCTAAC
CGTCGGGGTGATACTTGGCATGATCGAGATCGCATTTCATGTTACTGTGCGGAGAGACAGA
GCTCCTCCAGAGAGAGGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAACTGGTTC
AAGATTACAATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGATTCAG
AGCAAGTGCAGTGTGCCCTTACCCCTATTGAGTTTCACTATGAGAATACACGGGCCAG
TTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAAGGCTGTCAACTATAAGATTTTG
GATCGGGAGAACC GAAGGATATCTATCATCAACTCTTCTGCTCCACCCACACTATA
CTGAATGAACTGAAGCCAGAACAAGTAGAACAGCTAAAGCTGATCATGAGCAAACGATAC
GATGGCTCCCAACAGCCCTTGACCTCAAAGGCCTCCGTTCCAGACCCAGATTTGGTGGCC
CAGAACATTGACGTTGCTCTGAATCGCAGAAGCTGTATGGCAGCTACCCTGAGGATCATT
GAAGAGAACATCCCTGAGCTATTGCTCTGAACTTGAGCAACAACAGGCTGTACAGGCTG
GATGACATGTCTAGCATTGTTGAGAAGGCACCCAACCTGAAGATCCTAAACCTTTCTGGA
AATGAATTGAAGTCTGAGCGGAATTGGACAAGATAAAGGGGCTGAAGCTAGAAGAGCTC
TGGCTCGATGGAACTCCCTGTGTGACACCTTCCGAGACCAGTCCACCTACATCAGCGCC
ATTCGCGAACGATTTCCCAAGTTACTACGCTGGATGGCCATGAGCTACCCCAACCAATT
GCCTTTGATGTTGAAGCCCCACGACGTTACCGCCCTGCAAGGGAAGCTATTTTGGAAACA
GAAAACCTGAAGAGTCTGGTCTTGCACTTCCCTGCAACAGTACTATGCAATTTACGACTCT
GGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGGCTGCTGTTCCCTGAGCATT
CCTTTTCATTCTCAGAACCCTGCCCGAAGCAGCTTAGCCGAGTATTTCAAGGATAGCAGA
AATGTGAAGAAGCTTAAAGACCCTACCTTGCAGTTCGGGTGCTGAAGCACACGCGTCTC
AACGTTGTTGCCCTTCTCAATGAGTTGCCAAAACCCAGCACGACGTCATTCCTTCGTG
GTAGACATAAAGCGCCAGACAAGCACATTGCTGTGTTTTCTGTCAATGGAGTCTTCAAG
GAAGTGGACGAAAGTCCCGGATTCTTTGCGAGCCTTCCACCGGACATTATTGCTGTT
CCTGCTAGCAATTCAGGGCTATGTATTGTAATGATGAGCTATTTGTGCGGAATGCCAGT
TCTGAAGAGATCAAAGAGCCTTCGCTATGCCTGCACCCAGCCTTCTCCAGCCCGGTG
CCCACCCTCTCTCCAGAGCAGCAGGAAATGTTGCAAGCATTCTCTACCCAGTCTGGCATG
AACCTCGAGTGGTCCCAGAAGTGCTTCCAGGACAACAACCTGGGACTACCCAGATCTGCC
CAGGCCTTCACTCATCTCAAGGCCAAGGGCGAGATCCCAGAAGTGGCATTTCATGAAGTGA

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Clone variation with respect to NM\_006362.4

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006362 unedited

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TTTGAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCAGCGGCGCGCAG
GTGCTTTGCTGTATAAATGCGGTGGCGCCGGCGTAGGGACACTTCGGTCTGAGCGCTT
GGGAGTTAGGTTGTTGCCGGCGTAGCGCCAGCGCCTGAGCCCGCCTTGATCTTCGCT
GTGGCATGGCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTAAATTTCC
CTCAAAGAAGAAGAAAGGCCGGGTCCCTTCCGGTGAAATATGGTGAAGGAAACCGTA
GGTCTGGAAGAGGCGGTTCTGGTATTCGGTCTTCCCGCTTGAGGAAGATGATGGAGATG
TGGCAATGAGTGTGCCAGGATGGTCCCCGAGTACGATACAACCCCTATACCACCCGAC
CTAACCGTCGGGGTGATACTTGGCATGATCGAGATCGCATTTCATGTTACTGTGCGGAGAG
ACAGAGCTCCTCCAGAGAGAGGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAACT
GGTTCAAGATTACAATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGA
TTCAGAGCAAGTGCAGTGTGCCCTTACCCCTATTGAGTTTCACTATGAGAATACACGGG
CCCAGTTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAAGGCTGTCAACTATAAGA
TTTTGGATCGGGAGAACCANAGATATCTATCATCAACTCTTCTGCTCCACCCAC
TATACTGNATGAACTGAGCCAGNAACAGTAGAACAGCTAAAGCTGATCATGAGCAAACG
ATACGATGGCTCCCAACAGCCCTTGACCTCAAGGNC

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006362 unedited GAACCGCGCCTTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACAACATCACTCTTTAT ATTA AAAAGTGCAGAACACGAAATACAACATCACTCTTTATATTA AAAAGTAAGGAGGTC CTGGGGTTAAGTACACAAAGCACCTAAGTCCTTCGGGTAGTTTAGTGTCAGTTCTACAAA GTAAGCTTTGGCTTCCTGGCACCAGTGAGGCTCAATCTTCTGAAGTCTTCAGAAGGCAG GCGAGGAGAGGGATCAGGCAGCCCTCCCTCCCTCGGTCACAGTCACGGGGCGGCCTCGGG CCAGACAGGAGGAGATGACAGACGACAACCAGACGGTAATATCCAAGGACTATTTACAGG GGGGACTGCTTCTGAGGCATGACTACGATCACTTCATGAATGCCACTTCTGGGATCTCGC CCTTGGCCTTGAGATGAGTGAAGGCCTGGGCAGATCTGGTGTAGTCCAGTTGTTGTCT GAAGGCACTTTTGGGACCACTCGAGTTCATGCCAGACTGGGTAGAGAATGCTTGCAACA TTTCTGCTGCTGGAGAGAGGGTGGGCACCGGGCTGGAGGAAGGCGTGGGTGCACGCC TANCGAAGGCTCTTTGGATCTCTTAAGAACTGGCATTCCGCACAAATGGCTCATCATTTA CAATACATAGCCCTGAATTGCTAGCAAGGACAACATTGAATGTCGGGGGAAAGCTCCA AAATAACCGGGAACTTTCCGCCACTTTCTTTAAAACCTCTTGCCAGAAAAACACAN CAATGTGCTTGTCTTGGGCCTTTTGTCTCCACAAAGAATTGCCCCCGCTGGGCTCGGG CCCCTCGTGAAGCCCCCTCGAACCCCTGTGCTCACCACCGCACCGCAGGTAGGCTTAA ACTTTCTCATTTTTGTTTCTTAAATAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006362
<b>Insert Size:</b>	2640 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006362.3</a> , <a href="#">NP_006353.2</a>
<b>RefSeq Size:</b>	2307 bp
<b>RefSeq ORF:</b>	1860 bp
<b>Locus ID:</b>	10482
<b>UniProt ID:</b>	<a href="#">Q9UBU9</a>
<b>Cytogenetics:</b>	11q12.3
<b>Domains:</b>	LRR, NTF2, TAP_C

**Gene Summary:**

This gene is one member of a family of nuclear RNA export factor genes. Common domain features of this family are a noncanonical RNP-type RNA-binding domain (RBD), 4 leucine-rich repeats (LRRs), a nuclear transport factor 2 (NTF2)-like domain that allows heterodimerization with NTF2-related export protein-1 (NXT1), and a ubiquitin-associated domain that mediates interactions with nucleoporins. The LRRs and NTF2-like domains are required for export activity. Alternative splicing seems to be a common mechanism in this gene family. The encoded protein of this gene shuttles between the nucleus and the cytoplasm and binds in vivo to poly(A)<sup>+</sup> RNA. It is the vertebrate homologue of the yeast protein Mex67p. The encoded protein overcomes the mRNA export block caused by the presence of saturating amounts of CTE (constitutive transport element) RNA of type D retroviruses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).