

## Product datasheet for MR211584

### Xpo1 (NM\_001035226) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpo1 (NM_001035226) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xpo1
Synonyms:	AA420417; Crm1; Exp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211584 representing NM_001035226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCAATTATGACAATGTTAGCAGACCATGCAGCTCGTCAGCTGCTTGATTCAGCCAAAACTGG  
ATATCAACCTTTAGACAACGTGGTGAATTGCTTATACCATGGAGAAGGAGCCCAGCAAAGAATGGCTCA  
AGAAGTACTGACACATTTAAAGGAGCATCCTGATGCTTGGACACGGGTCGACACAATATTGGAGTTTTCG  
CAGAACATGAACACGAAATACTATGGACTACAGATTTTGGAAAAATGTGATCAAAACAAGGTGAAGATCC  
TTCCAAGGAACCAAGTGTGAAGGAATAAAAAATATGTTGTTGGTCTCATTATCAAGACATCCTCTGACCC  
AACTTGTGTAGAGAAAAGAAAAGGTGATATTGGGAAATTGAATATGATTCTTGTTCAGATACTTAAGCAA  
GAGTGGCCTAAGCATTGGCCAACTTTTATCAGTGACATTGTTGGAGCGAGTAGGACCAGTGAAAGTCTAT  
GTCAAAAATAATGTTGATTCTTAAACTCTTGAGTGAAGAAGTGTGTTGATTTCTCTAGTGGACAGATAAC  
CCAAGTTAAAGCAAAGCATTAAAGACAGCATGTGCAATGAGTTTTACAAAATATTTACGCTTTGTTCAG  
TTTGTGATGAAAATTTCCAAAATGCTCCCTTGTTCATGCTACATTAGAAAACACTGCTGAGATTTCTGA  
ACTGGATCCACTGGGATACATCTTTGAGACCAAGTTAATCAGCACATTAATTTACAAGTTCCTGAATGT  
TCCAATGTTCCGAAATGTGTCTCTAAAGTGCCTCACTGAGATTGCTGGTGTGAGTGAAGCCAATATGAG  
GAACAATTTGAAACTCTGTTTACACTTACAATGATGCAGCTAAAACAGATGCTTCCCTTTAAACACTAATA  
TCCGACTTGCATACTCGAATGGGAAAGATGATGAACAGAACTTTATTCAAATCTCAGCCTGTTTCTCTG  
TACCTTTCTAAAAGAGCACGGTCAACTTCTAGAAAAACGACTGAATCTCAGGGAAGCACTCATGGAGGCT  
CTTCATTATATGTTGTTGGTGTCTGAAGTGAAGAAAAGTAAAATTTTAAAATCTGCCTTGAGTACTGGA  
ATCATTGGCAGCTGAGCTCTACAGAGAGAGTCCATTTTCTACATCTGCTTCTCCCTTGTATCTGGAAG  
TCAACACTTTGATATTCCTCCTAGGAGACAGCTGACTTGACCGTGTATCAAAGGTCGGTTTATTGATG  
GTTAGTCGCATGGCTAAACCAGAGGAGGACTGGTTGTAGAAAATGATCAGGGAGAAGTTGAAGAGAGT  
TCATGAAGGATACTGATCCATAAATTTATATAAGAATATGAGAGAAACATTAGTTTATCTTACTCATCT  
GGATTATGTAGTACGGAATAATAATGACTAAGAACTCAAATCAAGTGAATGGTACAGAATGGTCA



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TGGAAGAATTTGAATACGTTGTGTTGGGCAATAGGCTCCATCAGTGGCGCAATGCATGAAGAGGATGAGA  
 AGCGGTTTCTTGTACTGTTATAAAGGATCTTTTAGGATTATGTGAGCAGAAAAGAGGCCAAAGATAATAA  
 AGCTATTATTGCATCGAATATCATGTACATAGTAGGTCAATACCCAAGATTTTTGAGAGCACACTGGAAA  
 TTTTGAAGACAGTAGTAAACAAGCTATTCGAATTCATGCATGAGACCCATGATGGAGTCCAGGATATGG  
 CTTGTGACACATTTATTTAAATAGCTCAAAAATGCCGTAGGCATTTTGTTCAGGTTCAAGTTGGAGAAGT  
 AATGCCGTTTCATTGATGAGATTTTAAACAACATAAATACTATAATTTGTGATCTTCAGCCTCAGCAGGTT  
 CATACATTTTATGAAGCTGTGGGTACATGATTTGGTGCACAGACAGACCAGACAGCTTCAAGAGCATTGGA  
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 TCAGTGAAAAATTTCTGCAGCTATTCAAGCTAATGGTGAGATGGTTACAAAGCAACCATTGATTAGAAG  
 TATGCGGACAGTAAAAGGGAACTTTAAAGTTAATATCTGGTTGGTGAGCCGTTCCAATGATCCTCAG  
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 TGAATACTCAATATTCGATGCAGTTTTGAGTGCACATTGAATATGATAAATAAGGATTTTGAAGAG  
 TATCCAGAACACAGAACAACTTTTTCTTATTACTTCAAGCTGTCAATTCCTACTGTTTCCAGCATTCC  
 TAGCTATTCACCTGCACAGTTCAGCTGGTTTTGGATTCTATTTTGGGCTTTTAAACATACTATGAG  
 GAATGTTGCAGATACAGGCTTACAGATACTTTTTACACTTTTACAAAATGTTGCACAAGAGGAAGCTGCC  
 GCACAGAGTTTTTATCAAACTTATTTTTGTGATATTCTTCAGCATATTTCTCTGTTGTAACAGACACTT  
 CACATACTGCAGGTCTAACAATGCATGCATCAATCTTGCATATATGTTTAAATTTGGTTGAAGAAGGAAA  
 AATAAGTACACCACTAAATCCTGGAATCCAGTTAACAACCAATGTTTATTCAAGACTATGTGGCTAAT  
 CTCCTTAAATCTGCATTCCTCATCTACAAGTCTCAAGTAAAGCTCTTGTAAACAGGACTTTTCAGCT  
 TAAATCAGGATATCTCTGCTTTCAAAGAACACCTAAGGGATTTCTTAGTTCAAATAAAGGAGTTTGAAG  
 TGAAGATACATCGGATCTATTTTTGGAAGAAAGAGAAACAGCCCTTCGACAGGCTCAGGAGGATAAACAT  
 AAACCTCAAATGTCTGTACCTGGGATTCTAATCCACACGAAATTCAGAGAAATGTGTGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211584 representing NM\_001035226

Red=Cloning site Green=Tags(s)

MPAIMTMLADHAARQLLDFSQKLDINLLDNVNVNCLYHGEGAQQRMAQEVLTHLKEHPDAWTRVDTILEFS  
 QNMNTKYVGLQILENVIKTRWKILPRNQCEGIKYYVVGIIKTSDDPTCVEKEKVIYIGKLNMIQILKQ  
 EWPKHWPFTISDIVGASRTSESLCQNNMVLKLLSEEVDFSSGQITQVKAKHLKDSMCNEFSQIFQLCQ  
 FVMENSQNAPLVHATLETLLRFLNWIPLGYIFETKLITLIYKFLNVPMPFRNVSLKCLTEIAGVSVSQYE  
 EQFETLFTLMMQLKQMLPLNTNIRLAYSNGKDDEQNF IQNLSLFLCTFLKEHGQLEKRLNREALMEA  
 LHMYLLVSEVEETEIFKICLEYWNHLAELYRESFSTASPLLSGSQHFIPRRQLYLTVLSKVRLLM  
 VSRMAKPEEVLVENDQGEVREFMKDTSINLYKNMRETLVYLTHLDYVDTEIIMTKKLQNVNGTEWS  
 WKNLNTLCWAIGSISGAMHEEDEKRFLVTVIKDLLGLCEQKRGKDNKAIIASNIMYIVGQYPRFLRAHWK  
 FLKTVVNLKLFEFMETHDGVQDMACDTFIKIAQKRRHFVQVQVGEVMPFIDEILNNINTIICDLQPQV  
 HTFYEA VGYMIGAQTDTQVQEHLIEKYMLLPNVWDSIIQQATKNVDILKDPETVKQLGSIKLTNVRACK  
 AVGHFPVIQLGRIYLDMLNVYKCLSENI SAAIQANGEMVTQKPLIRSMRTVKRETLKLSGWVSRNDPQ  
 MVAENFVPLLDVAVLDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDAVFECTLNMINKDFEE  
 YPEHRTNFFLLQAVNSHCFFAFLAIPPAQFKLVLDSEIWFKHTMRNVADTGLQILFTLLQNVAQEEAA  
 AQSFYQTYFCDILQHFVSVTDTSHTAGLTMHASILAYMFNLVEEGKISTPLNPGNPVNNQMF IQDYVAN  
 LLKSAFPHLQDAQVKLFTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLERETALRQAQEEKH  
 KLQMSVPGILNPHEIPEEMCD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

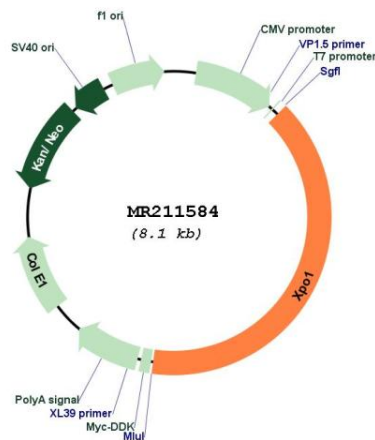
Sgfl-MluI



**RefSeq:** [NM\\_001035226.1](#), [NP\\_001030303.1](#)  
**RefSeq Size:** 4906 bp  
**RefSeq ORF:** 3216 bp  
  
**Locus ID:** 103573  
**UniProt ID:** [Q6P5F9](#)  
**Cytogenetics:** 11 A3.2  
**MW:** 123.5 kDa

**Gene Summary:** Mediates the nuclear export of cellular proteins (cargos) bearing a leucine-rich nuclear export signal (NES) and of RNAs. In the nucleus, in association with RANBP3, binds cooperatively to the NES on its target protein and to the GTPase Ran in its active GTP-bound form. Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Involved in U3 snoRNA transport from Cajal bodies to nucleoli. Binds to late precursor U3 snoRNA bearing a TMG cap (By similarity).  
 [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR211584