

Product datasheet for **MC229335**

Xpo1 (NM_134014) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpo1 (NM_134014) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xpo1
Synonyms:	AA420417; Crm1; Exp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229335 representing NM_134014 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCAGCAATTATGACAATGTTAGCAGACCATGCAGCTCGTCAGCTGCTTGATTTAGCCAAAACTGG
ATATCAACCTTTTAGACAACGTGGTGAATTGCTTATACCATGGAGAAGGAGCCAGCAAAGAATGGCTCA
AGAAGTACTGACACATTTAAAGGAGCATCTGATGCTTGGACACGGTTCGACACAATATTGGAGTTTTCG
CAGAACATGAACACGAAATACTATGGACTACAGATTTTGGAAAAATGTGATCAAAAACAGGTGGAAGATCC
TTCCAAGGAACAGTGTGAAGGAATAAAAAATATGTTGTTGGTCTCATTATCAAGACATCCTCTGACCC
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GAGTGGCCTAAGCATTGGCCAACTTTTATCAGTGACATTGTTGGAGCGAGTAGGACCAGTGAAAGTCTAT
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AGCGGTTTCTTGTTACTGTTATAAAGGATCTTTTAGGATTATGTGAGCAGAAAAGAGGCAAAGATAATAA
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TAGCTATTCCACCTGCACAGTTC AAGCTGGTTTTGGATTCTATTTTGGGCTTTTAAACATACTATGAG
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GCACAGAGTTTTTATCAAACCTATTTTTGTGATATTCTTCAGCATATTTCTCTGTTGTAACAGACACTT
CACATACTGCAGGTCTAACAATGCATGCATCAATTCTTGCAATATGTTTAAATTTGGTTGAAGAAGGAAA
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TAAATCAGGATATTCTGCTTTCAAAGAACACCTAAGGGATTTCTTAGTTCAAATAAAGGAGTTTGCAGG
TGAAGATACATCGGATCTATTTTGAAGAAAGAGAAACAGCCCTTCGACAGGCTCAGGAGGAGAAACAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_134014
- Insert Size:** 3216 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:**
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_134014.3](#), [NP_598775.2](#)

RefSeq Size: 5144 bp

RefSeq ORF: 3216 bp

Locus ID: 103573

UniProt ID: [Q6P5F9](#)

Cytogenetics: 11 A3.2

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]