

## Product datasheet for MC223741

### Xpo4 (NM\_020506) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpo4 (NM_020506) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xpo4
Synonyms:	B430309A01Rik; mKIAA1721
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223741 representing NM_020506 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGCGGGCGCTGGGGCCCCAGAAGTGATCGCTCAGCTGGAGAACGGCCAAAGTTCTGATGG  
CACCACCTTCCATGGTCAGTAATGAGCAGCGCCAGCATGCAGAGCACATATTCCTATCATTTAGGAAGTC  
CAAATCACCATTTCAGTTTGCAGGCATATTTTGGAAACAGTAAAGTGGACTATGTCCTTTTCAAGCT  
GCCACAGCTATAATGGAAGCGGTTGTCCGAGAGTGGGTTCTCTTGAAAAGGGCAGCATCGAGTCACTGA  
GAACATTCCTCCTCACCTATGTCTTGCAAAGGCCTAACCTCCAAAAGTATGTTCCGGAAACAGATTCTATT  
AGCAGTAGCAGTGATTGTAAGAGAGGATCATTAGATAAGTCAATTGACTGCAAAAGCATATTTTCATGAA  
GTCAGCCAGTTGATAAGTAGTGGCAATCCCACTGTGCAAACTCTGGCCTGTTCTATTCTAACTGCTCTAT  
TGAGTGAATTTCAAGTTCAAGTAAACTAGCAACATTGGGCTGAGTATGGAATCCACGGTAACTGCAA  
GCGAGTCTTTCAGGAAGAAGACCTTCGGCAGATCTTCATGTTAACAGTTGGAGTTCTGCAGGAGTTCAGC  
AGACGGGAGAACCTCAGTGCTCAGATGTCCTCAGTGTTTCAGCGGTACCTCGCCCTCGCCAACCAAGTCC  
TGAGCTGGAATTTCTCCCTCCAATTTGGGCAGACATTATAGCTATGTTTGAATCCTCACAAAATGT  
GCTGTTGAAGCCAACAGAGTCTGGCGGGAGGCTCTTCTGGACAGCAGAGTTATGGAGCTCTTCTTCACT  
GTACATCGAAAAATCAGAGAAGATTAGATATGGCACAGGATTCCTGCAAGTGCCTTGCCAGTTAGCGT  
CTCTCCACGGACCATCTTCCCCGACGAAGGATCCCAGGTTGATTATCTAGCACACTTCATTGAGGGCTT  
GCTCAACACTATTAATGGAATTGAAATAGAAGATTCTGAAGCCGTAGGGATCTCCAGCATTATCAGCAAT  
CTGATAACTGTGTTCCCTCGAATGTTTTAACTGCCATCCCCAGTGAAGTCTTCTCTCTTTGTGAACT  
GCCTCACACACCTCACTTGTCTTTTGGCGAAGTGTGCGTTGGAAGAAGTGTGATAAGGATGACAT  
GGTATACATGGAAGCATATGATAAATTGCTGGAGTCTGGCTAACTTTGGTCCGAGATGACAAGCATTTC  
CATAAAGGCTTTTTCACACAGCATGCAGTTCAGGTGTTCAATTCCTATATTCAATGTCACCTTGCTGCTC  
CAGATGGCACAAGAAATTTGACAGCCAATGGTGTGGCCTCGCGTGAGGAAGAAGAAATAAGTGAGCTCCA  
AGAGGATGATCGTGATCAGTTTTCCGACCAACTAGCCAGCGTAGGAATGCTGGGACGGATTGCTGCCGAA  
CACTGTATGCCTCTTCTGACAAGTTTATTAGAAGAAAGGTAACAAGACTCCATGGCCAGTTACAACGGC



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ATCAGCAACAATTCCTTGCTTCACCCGGATCAAGCACCATTGACAACAAAATGCTTGACGATCTTTACGA  
 GGATATTCAGTGGCTTATTCTAGTTACAGGCTACCTCTTAGCTGATGATACTCAGGGAGAGACTCCGCTA  
 ATACCTCCAGAAAATATGGAATATTCCATTAAGCATTCTCTGAAGTTGACATTAATACAACACTTCAA  
 TTTTGGGATCTCCAGGAGAAAAGGCTTCTCCATCCCAGGGTACAGCAGAACAGATTCTGTGATTAGGCT  
 GTTGTCTGCTGTGCTAAGAGTCTCAGAAGTTGAATCTCGAGCAATAAGAGCAGATCTCACTCATCTACTA  
 AGCCCTCAGATGGGCAAAGATATTGTTTGGTTTCTAAAACGCTGGGCCAAGACTTACCTCCTGGTAGATG  
 AAAAAGTGTATGATCAGATAAGTTTGCATTGAGCAGCAGCATTGGAGCGGATACAGAGGGTTCCAGTG  
 GATTATCGGCTACCTCTTACAAAAGGTCAACAGCAATCTGTCGGTATGGAGCAGTGAACAGGACCTCGCG  
 AATGACACTGTTCAAGCTCCTTGCACTTTGGTAGAAAAGAGAAAAGGGCAAACCTTAGTAATTCAGTGTG  
 AAAACTGGTGGAACCTAGCAAAGCAGTTTGAAGCCGAAGCCACCTCTTAACTCCTGTCCAGTCCAGT  
 GCAGAGGACACTGATGAAGGCTCTGGTCTTAGGAGGCTTGCACATATGGACACAGAAAACCAAGCAGCAG  
 TATTGGACTGAGGTTCTGCAGCCTCTCAGCAGAGGTTCTGAGAGTGATCAACCAAGAGAACTTTCAGC  
 AGATGTGCAGCAGGAGGAAGTCAAGCAGGAGATCACTGCCACATTGGAGGCCCTGTGTGGCATTGCTGA  
 GGCCACCAGATCGACAATGTAGCCATCCTTTTTAATTTTTAATGGACTTCTTAAACAATTGCATTGGT  
 TTAATGGAAGTTTACAAAATACTCCAGAACTGTCAATCTCATTATAGAAGTTTTTGTGAAGTTGCAC  
 ATAAACAAATATGCTATCTTGGAGAGTCCAAGCTATGCATTTATACGAAGCCTGCCTTACTTTGTTACA  
 AGTGTATTCTAAGAATAACTTAGGGCGGCAAAGGATAGACGTCACGGCGGAGGAAGAGCAGTACCAAGAC  
 CTGCTTCTCATATGGAGCTTCTCACTAACCTTCTCTCAAAGGAGTTTCATCGACTTGTAGTGACACAGATG  
 AAGTGTGTAGAGGACATGAGCCAGGACAAGCAGCAGGCAGATCTGTATCGGCAGCTGATGTCGTTTTATA  
 TGGAGTAAACCTAATCTGCCCTAATGTCAACAAGATCTTTTGAAGTTTCCAACCCTTGTAAATCAATAT  
 TACAACTGATCACATTTATTTGTGAGATTTTCTGAAAAGTACCGCAGCTTCTGAGGATCTGTTTA  
 AGAGTCTGATGTACTCCCTAGAAGTGGGATGACATCAATGAGTTCAGAAGTATGCCAGCTTGTCTCGA  
 GGCTTGCAGCACCATTAGCTGAACAATGTGCTAAAGCACAAGAAAACGGATTCAACACTTTTTCTAGCAACA  
 CGACACTTCTTAAGCTGGTTTTGATATGCTGGTCTTGCAAAAAGCACAACACGGAGATGACCAGTGCAG  
 CAGGCGAAGCATTCTACACATTGGTGTGTTGCACCAGGCTGAATATTCTGAACTGGTTGAGACATTACT  
 GTCAAGTCAACAAGACCCAGTCAATTTACCAGAGATTAGCAGATGCCTTCAACAAGCTCACAGCGAGCAGC  
 ACTCCTCTGCCCTGGACCGGAAGCAGAAGATGGCCTTCTAAAGAGTTTAGAAGAATTTATGGCAAATG  
 TTGGTGGTCTCCTTTGTGTAATAA

ACGGCTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_020506

**Insert Size:**

3456 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).

**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\\_020506.1](#), [NP\\_065252.1](#)

**RefSeq Size:** 3456 bp

**RefSeq ORF:** 3456 bp

**Locus ID:** 57258

**UniProt ID:** [Q9ESI0](#)

**Cytogenetics:** 14 C3

**Gene Summary:** Mediates the nuclear export of proteins (cargos) with broad substrate specificity. In the nucleus binds cooperatively to its cargo and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric 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. XPO4 then return to the nuclear compartment and mediate another round of transport. 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 (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.