

## Product datasheet for MC204489

### Xpo7 (NM\_023045) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpo7 (NM_023045) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xpo7
Synonyms:	4930506C02Rik; BB164534; exp7; mKIAA0745; Ranbp16
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC029702

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CTGAGAGGAGCATGAATGGAGCAAATGGCGGATCATGTGCAGAGCCTGGCCAACTAGAGAATCTGTGC
AAACAGTTGTATGAAACAACAGATACAACCACTCGACTGCAGGCAGAGAAAGCCTTGGTTGAATTCACCA
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ACTTGAAGTACTGGGGTCGTTGTGAGCCAATCACCTCCAAGACACTGCAGCTCCTCAATGACCTCTCCAT
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GGTCACCGTGCAGGGAGACCCGGCGCCCTGCCGACGCTGCCTTGATAAACATGTACATTTTTTCATA
ACGTTTTCAACAAGGTTTATATTGACTCAAGTTTAAAAAAAAAAAAAAAAA

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**Restriction Sites:**

RsrII-NotI

**ACCN:**

NM\_023045

**Insert Size:**

3264 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:**
[BC029702](#), [AAH29702](#)
**RefSeq Size:**

3689 bp

RefSeq ORF: 3264 bp

Locus ID: 65246

UniProt ID: [Q9EPK7](#)

Cytogenetics: 14 D2

**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. XPO7 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]