

Product datasheet for MC223340

Ipo7 (NM_181517) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ipo7 (NM_181517) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ipo7
Synonyms: A330055O14Rik; C330016G14; Imp7; Ranbp7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223340 representing NM_181517
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCCCAACACCATCATCGAGGCCCTCCGGGGCACCATGGACCCAGCCCTGCGCGAGGCCGCTGAGC
 GCCAGCTCAATGAAGCACACAAGTCTCTGAATTCGTTTCAACACTGCTCCAGATTACTATGTCAGAACA
 ACTGGATTTACCTGTGAGACAGGCAGGTGTTATTTATTTAAAAATATGATAACACAATATTGGCCTGAT
 CGGGAAGCCACACCAGGGGACATCGCTCCATATACTATTCCAGAAGAAGACCGGCATTGTATTCCAGAAA
 ATATTGTAGAAGCCATTATCCACTCACCTGAGCTTATCAGGGTACAGCTTACTACGTGCATCCATCATAT
 CATCAAACATGACTATCCAAGCCGCTGGACTGCCATTGTGGACAAGATTGGCTTTTATCTTCAGTCTGAT
 AACAGTGTCTGTTGGCTGGGAATCCTTCTTTGCCTTTATCAGCTTGTGAAAAATTATGAGTACAAGAAAC
 CAGAAGAGCGAAGTCCGTTAGTGGCAGCCATGCAGCACTTTCTGCCAGTTCTGAAGGATCGCTTTATCCA
 GCTGCTTCTGACCAATCCGACCAGTCTGTCCTCATTCAAAGCAGATATTCAAGATCTTCTATGCTCTT
 GTTCAGTATACACTACCCTGGAGCTGATAAACCAACAGAATCTAACTGAATGGGTAGAAATTTGAAGA
 CAGTTGTGAATAGGGATGTACCTAATGAAACACTTCAAGTTGAAGAAGATGATAGACCTGAGTTACCCTG
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 GTTTACAGCCTGTAGCAAAAGGAAAGAGGTACTGCAAAAGACTATGGGATTTTGTACCAAATCTTACT
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 GATCAAATCTCAAACAGCTTTAGAGCTGACAAGAAGATGTCTGATTGATGATCGAAGAAATGCCTGTGA



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AAGTGGAAAGCTGCCATTGCACTACAGGTGTTGATCAGCAATCAAGAAAAAGCTAAAGAGTACATCACTCC
ATTTATCAGACCTGTCATGCAGGCTCTTCTTCATATTATAAGAGAAAACAGAAAATGATGATCTTACAAA
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TGAGTATCAAATCTTTAAAGCTATATTTCAAATATTCAAATCGCAATCCTGTATGGTATCAGGCTTTG
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CAGCCCATGAGTCCAAAATGATTGAAAAGCATGGAGGATACAAAATTCAGTGCACCAGTTGTGCCAAGTTC
TTTCAATTTTGGAGGCCACGACCGGGGATGAATTGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_181517

Insert Size:

3117 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_181517.3](#), [NP_852658.2](#)

RefSeq Size:

3117 bp

RefSeq ORF:

3117 bp

Locus ID: 233726

UniProt ID: [Q9EPL8](#)

Cytogenetics: 7 E3

Gene Summary: Functions in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with KPNB1 mediates the nuclear import of H1 histone and the Ran-binding site of IPO7 is not required but synergizes with that of KPNB1 in importin/substrate complex dissociation (By similarity). In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones.[UniProtKB/Swiss-Prot Function]