

## Product datasheet for **MC223483**

### Ipo4 (NM\_024267) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ipo4 (NM\_024267) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ipo4  
**Synonyms:** 8430408O15Rik; AA409693; Imp4a; RanBP4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223483 representing NM\_024267  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGCCTCGGGTTTGGAACAGATCCTGAAGGAGCTGCTGCTGCCCGACACGGAGCGCATCCGCCGGG  
 CTACGGAGCAGCTCCAGACCATCCTTCGGGACCCTGCTGCCTTGCCCGCACTCTTCGATCTGCTGGCAAC  
 AGCGACCGACTCTCAGATCCGCCAGTTTGCAGCGGTCTGACCCGCAGAAGGCTGAACAATCGCTGGCGA  
 CGCCTGGCACCTGAGCAGAGGGAGAGCCTCAAGTCCCTGGTCTGACAGCACTGCAGAAAGAGACAGTGC  
 ATTCTGTGAGTGTGAGCTTGGCCAGCTCTCAGCCACCATTTTTCGAAAGGAAGGCTACAGGATGGCC  
 TCAGTTCATGAACCTTCTCAGCACAGCACTCATAGTTCCCATAGCCCCGAGAAAGAGGTGGGACTTCTG  
 CTGCTGAGTGTGGTGGTGTCTTCCAGCCCGAGGCATTCCATGCCACCAGCAGAGCTGCTTCAGCTTC  
 TGAATGAGACGCTCAGTGACGTCAGCTTCCCGGAGTGTCTTCTACTCCCTGCGCACTCTGACTGCCAT  
 CGCCCCGTATGTCAGGCCGGATGATGTGTCTCTGCACGGATGTTGGTGCCCAAAGTCGTTACGGCACTG  
 AGGACTCTGATCCCCTTAGATGAGGTAAGGCCCTGTGAGGCCCTGGAGGCCCTGGATGAAATGCTGGAGA  
 CAGAGTTGCCCATCATCAACCCCCACCTCTGAGGTCCTCACGTTTTGCCTGGAGTGGCTAAGAATGT  
 GGCCCTTGGCGAACCACCTCCGCTACGTGTTCTCTGCTGCCTCACTTTCTTGGTCAAAGTCAAAGTAAG  
 GCCTTACTAAAGAACCGCCTCGTGCCTCCCTTGTGCACGCCCTTTCCCTCATGGCTGCTGAGCCAC  
 CCATGGGCCAACTGGATCCTGAAGATCAAGATTCGGATGACGATGACTTGGAGATCGGGCTGATGGGGGA  
 GACTCCCAAGCACTTTGCTGTACAGTTGTGGACATGCTGGCACTACATCTTCCCTGAGAAGCTGTG  
 CCCCATGTGATGCCCATGCTGGAAGAAGCCTTGCAGGAGCAGGACCCATACCAGCGCAAAGCAGGATTCC  
 TGGTGTGGCTGTGCTGTGATGGTGCAGGCGACCACATCAGGCAGAGACTGCTGTACCCACTGCTACA  
 GATTGTGTGCAAGGCCCTGGATGACCCCTCACAGATTGTTGTAATGCTGCTGTGCTCGCCCTGGCCAG  
 TTTTCAGAGAACTTACAGCCCCATATCAGCAGCTACTCTGAGGAGGTGATGCCCTTCTCCTCTCCTACC  
 TGAAGTCAGTGCCGATGGGAAACACACACCACCTGGCCAAAGCCCTGCTATGCTCTGGAGAATTTTGTGGA  
 GAACCTAGGGCCCAAAGTGCAGCCCTACCTTCCGAGCTTATGGAATGTATGCTGCAGCCATTGAAGAAC  
 CCCAGCAAAGCCCGACCAAGGAGCTAGCTGTGAGCGCCATAGGGGCCATTGCCACAGCGGCCAGGATT



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CCCTGCTGCCCTACTTCCCTACCATCATGGATCTTCTCCGGGAGTTCTTGTGGACAGGCCACGAAGACTT
TCATCTTGTGCAGATCCAGAGCCTGGAGACCCTGGGAGTGCTAGCACGAGCCCTGGGAGAGTCCATGAAG
CCCCTGGCTGAGGAATGCTGTCAGCTTGGGCTAGGGTTATGCATCCATATAGATGACCCTGACGTGAGGC
GCTGCACGTACAGCCTGTTTGCAGCCTTATCAGGGTTAATGGGAGAGGGCTTGGGACCCTACCTGCCTCA
GATTACCACGCTCATGCTGCTGTCGCTGCCCTCCACTGAGGGCATTGTGCCACAGTATGACGGGATCAGC
TCCTTCTGCTGTTTGTGACGACAGCGAAGCAGAAGAGGAGGAGGAGCTCATGGATGAAGATATGGAAG
AGGAGGGGATGACTCTGAGATCTCGGGTATAGTGTGGAGAATGCCTTCTTTGATGAGAAAGAAGACAC
CTGCACCGCCCTGGGGGAGATCTCCATGAACACCTGTGTGGCTTTTCTCCATTATGGATGCCACCTTC
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AGTTCTGCTGTGCACTGCATAAGGCCTCTCAGAGAAGCTCCTCAGATCCCAGCAGCAGTCCCCTTCTGCA
GACCTCCCTGGCTCGAGTGATGCCAGCTTACATGCAGGCCGTGAAAGTAGAAAGGAGCGCCAGTGGTG
ATGGCCGTGCTGGAGTCCCTGACAGGGGTGCTGCGCACCTGCGGCAGCCTTGCACTGCAGCCTCCTGGGC
GGCTCAGTGAGCTCTGCAACGTGCTCAAGGCTGTGCTGCAGAAAAAGACGGCCTGTCAGGACGCCGAGGA
GGATGATGACGAAGATGATGACCAGGCAGAGTATGACGCCATGTTACTAGAACATGCTGGAGAGGCCATT
CCCGTCTGGCAGCCACAGCTGGAGGACACGCCTTCGCTCCCTTCTTTGCCACGTTCTTGCCATTGTTGC
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TCAGGGTCTAGGGACCGCCTCAGCCCAGTTTGTGTCTCGGCTGTTCCCTGTGCTGTTAAACAATGCCCGG
GAAGCAGACCCTGAGGTGCGGAGCAATGCCATCTTTGGTTGGGCGTACTGGCAGAGCATGGCGGCTGCC
CTGCTCAGGACCACTTCCCTAAGCTACTGGGCCTCCTTTTGGCCCTGCTGGCAAGGGAGCGACATGATCG
AGTCCGTGATAACATCTGCGGGGCTCTTGCCCGTGTACTGATGGCCAGTCCAGTAGGAAAAACGGAGCCC
CAGGTGCTGGCTACCTGCTACGTGCCCTGCCCTGAAGGAAGACATGGAGGAGTGGTCACTATAGGTC
ACCTCTCAGCTTCTGCACCAGAACAATCCTGAGCAGGTTGTGGATGTGGCTTCAAGAACTCCTGCCAT
CTGCAGCTGATCCTGCCGGACAACCGGATCCCTCCAGACACCAAGGCGGCCCTGCTGCTCCTGACG
TTCTGGCCAAGCAGCACACCGACAGCTTCCACACAGCCCTGGGCTCTCTGCCAAATGATAAAGCTCAGG
AACTTCAGGCCATGATGGGCCTCACTTAA

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_024267
- Insert Size:** 3249 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\\_024267.6](#), [NP\\_077229.4](#)

RefSeq Size: 3611 bp

RefSeq ORF: 3249 bp

Locus ID: 75751

UniProt ID: [Q8VI75](#)

Cytogenetics: 14 28.19 cM

**Gene Summary:** Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import 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). Mediates the nuclear import of RPS3A. Acts as chaperone for exposed basic domains.[UniProtKB/Swiss-Prot Function]