

## Product datasheet for **MC220845**

### Ipo4 (BC003469) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo4 (BC003469) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ipo4
Synonyms:	RanBP4, Imp4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC003469  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGAGACTCCCAAGCACTTTGCTGTACAGTTGTGGACATGCTGGCACTACATCTTCCCCCTGAGA  
 AGCTCTGTCCCATGTGATGCCATGCTGGAAGAAGCCTTGCAGGAGCAGGACCCATACCGAGCGCAAAGC  
 AGGATTCCTGGTGTGGCTGTGCTGTGATGGTGCAGGCGACCACATCAGGCAGAGACTGCTGTACCCA  
 CTGCTACAGATTGTGCAAGGGCCTGGATGACCCCTCACAGATTGTTTCGTAATGCTGCTGTGTCGCC  
 TGGGCCAGTTTTTCAGAGAACTTACAGCCCCATATCAGCAGCTACTCTGAGGAGGTGATGCCCTTCTCT  
 CTCCTACCTGAAGTCAGTGCCGATGGGAAACACACACCACCTGGCCAAGGCCTGCTATGCTCTGGAGAAT  
 TTTGTGGAGAACCTAGGGCCAAAGTGCAGCCCTACCTCCGGAGCTTATGGAATGTATGCTGCAGCCAT  
 TGAAGAACCCAGCAAAGCCCGACCAAGGAGCTAGCTGTGAGCGCCATAGGGGCCATTGCCACAGCGGC  
 CCAGGATTCCTGCTGCCCTACTTCCCTACCATCATGGATCTTCCGGGAGTTCTTGTGACAGGCCAC  
 GAAGACTTTCATCTTGTGAGATCCAGAGCCTGGAGACCCTGGGAGTGCTAGCACGAGCCCTGGGAGAGT  
 CCATGAAGCCCCTGGCTGAGGAATGCTGTGAGCTTGGGCTAGGGTTATGCATCCATATAGATGACCCCTGA  
 CGTGAGGCGCTGCACGTACAGCCTGTTTGCAGCCTTATCAGGGTTAATGGGAGAGGGCTTGGGACCCCTAC  
 CTGCTCAGATTACCACGCTCATGCTGTGCTGCGTCCACTGAGGGCATTGTGCCACAGTATGACG  
 GGATCAGCTCCTTCTGCTGTTTGTGACGACAGCGAAGCAGAAGAGGAGGAGGAGCTCATGGATGAAGA  
 TATGGAAGAGGAGGGGATGACTCTGAGATCTCGGGTATAGTGTGGAGAATGCCTTCTTTGATGAGAAA  
 GAAGACACCTGCACCGCCCTGGGGAGATCTCCATGAACACCTGTGTGGCTTTTCTCCATTTCATGGATG  
 CCACCTTCGATGAAGTATACAACTGCTGGAGTGCCTCATATGAATGTGCGGAAGTCAGCTTACGAAGC  
 GCTGGGACAGTTCTGCTGTGCACTGCATAAGGCCTCTCAGAGAAGCTCCTCAGATCCAGCAGCAGTCCC  
 GTTCTGCAGACCTCCCTGGCTCGAGTGTGCCAGCTTACATGCAGGCCGTGAAAGTAGAAAGGGAGCGCC  
 CAGTGGTGTGAGCGTGTGGAGTCCCTGACAGGGGTGCTGCGCACCTGCGGCAGCCTTGCAGTGCAGCC  
 TCCTGGGCGGCTCAGTGAGCTCTGCAACGTGCTCAAGGCTGTGCTGCAGAAAAAGACGGCCTGTCAGGAC  
 GCCGAGGAGGATGATGACGAAGATGATGACCAGGCAGAGTATGACGCCATGTTACTAGAACATGCTGGAG  
 AGGCCATTCCTGCTGGCAGCCACAGCTGGAGGACACGCCTTCGCTCCCTTCTTTGCCACGTTCTTGCC  
 ATTTGTTGTGTGAAGACGAAACAGAGCTGTACAGTGGCAGAGAAGTCCCTTGTGTGGAAACCCTGGCA  
 GAGTCCATTCAGGGTCTAGGGACCGCCTCAGCCCAGTTTGTGTCTCGGCTGTTCCCTGTGCTGTTAAACA  
 ATGCCCGGAAGCAGACCCTGAGGTGCGGAGCAATGCCATCTTTGGGTTGGGCGTACTGGCAGAGCATGG  
 CGGCTGCCCTGCTCAGGACCACTTCCCTAAGCTACTGGGCCTCCTTTTGGCCCTGCTGGCAAGGGAGCGA  
 CATGATCGAGTCCGTGATAACATCTGCGGGGCTTGGCCGTGACTGATGGCCAGTCCAGTAGGAAAAA  
 CGGAGCCCCAGGTGCTGGCTACCCTGCTACGTGCCCTGCCCTGAAGGAAGACATGGAGGAGTGGCTCAC  
 TATAGGTCACCTTTCAGCTTCTGCACCAGAACAACTCTGAGCAGGTTGTGGATGTGGCTTCAAACTC  
 CTGCGCATCTGCAGCCTGATCCTGCCGACAACCGGATCCCTCCAGACACCAAGGCGGCCCTGCTGCTGC  
 TCCTGACGTTCTGGCCAAGCAGCACACCGACAGCTTCCACACAGCCCTGGGCTCTTGCCAAATGATAA  
 AGCTCAGGAACCTCAGGCCATGATGGGCCTCACTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: BC003469  
 Insert Size: 2277 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC003469</a> , <a href="#">AAH03469</a>
<b>RefSeq Size:</b>	2833 bp
<b>RefSeq ORF:</b>	2276 bp
<b>Locus ID:</b>	75751
<b>Cytogenetics:</b>	14 28.19 cM
<b>Gene Summary:</b>	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]