

Product datasheet for **MC220849**

Ipo11 (BC031900) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo11 (BC031900) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ipo11
Synonyms:	1700081H05Rik, 2510001A17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC031900 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCAATAGTGCCAGCTCTGTGGTTCTTCAGGTCCTAACACAGGCCACCAGTCAGGATACTGCTG
TGTTGAAGCCAGCCGAGGAGCAGCTGAAACAGTGGGAGACACAGCCAGTTTCTATTTCAGTGTGCTGAA
TATTTTTACGAATCACACCCCTTGATATAAATGTACGGTGGCTTGTGTGCTGATTTTTAAACATGGGATT
GATCGTTACTGGAGCGTGTGCGACCGCATGCTCTCTCAGAAGAGGAAAAGTCAACATTGCGTGCAGGGC
TCATCACCAACTTTAATGAACCAATAAACCCAGATTGCGACCCAGATCGCAGTGTGATTGCCAAGTTGTC
TCGGTTAGACTGTCTAGGCAGTGGCCGGAGCTCATTCCCACTCTGTAGAGTCTGTCAAAGTCCAGGAT
GACCTTCGCCAGCACAGAGCTCTGCTGACCTTCTACCATGTCACCAAGACGCTGGCATCCAAACGCCTGG
CCGCTGACAGAAAGCTATTCTATGATTTAGCTTCTGGAATTTATAATTTGCCTGTTCTCTGTGGAACCA
TCATACAGACACATTTCTGCAGCACGTTTCTTCTGGCAATGAAGCTGCGGTTCTGAGTTCCTAGAGCGA
ACACTGCTATCGTTAAAAGTGTGCGGAAGTTAACTGTGAATGGATTTGTGGAACCTCATAAGAATATGG
AGGTGATGGGTTTTTACATGGAATATTTGAACGCTAAAACAGTTTCTGGAGTGCAGCAGAAGTATAGG
TACAGATAATGTGTGTCGAGATAGACTGAAAAGACCATTCTTTTTACTAAAAGTCTCTTGGACTTC
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AAGATTAAGATGGCATTCTTACATATCCACGTTGACAGAGATATGTCGACGATTAGTCTCTCATTATT
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AGGAGACTCTTGGAAATACAGTTTGAGGCCTTGCAGTGAAGTATTATTTATAGATATATTCCACGAATAT
AATCAAACCTTACTCCTGTACTTCTAGAAATGATGCAAACCTTGAAGGTCCAACCAATGTAGAAGATA
TGAATGCACTGTTAATCAAAGATGCTGTGTATAATGCTGTGGGATTAGCTGCTTTTGAGCTGTTTGACAG
TGTTGATTTTGATCAGTGGTTAAAACCAACTCTTCCCGAATTACAAGTTTCTCATAATAGGTATAAG
CCATTACGACGCAGGGTGATTTGGCTCATTGGTCAGTGGATTTCTGTGAAATTCAGTCTGACTTGAGAC



CCATGCTGTATGAAGCAATCTGTAACCTGCTTCAAGATCAGGATTTAGTGGTCCGAATTGAAACAGCAAC
AACTCTGAAGTTAACTGTTGATGATTTTTGAATTTAGGACAGATCAGTTTTACCGTATCTGGAAACCATG
TTCACACTGCTTTTCCAGTTGCTGCAGCAGGTTACAGAGTGTGATACAAAGATGCACGTGCTGCACGTCC
TCTCCTGTGTGATCGAAAGAGTCAACGTGCAGATCCGACCATATGTGGGGTGTGGTACAGTATTTGCC
TCTTCTCTGGAAGCAGAGCGAAGAACAACATGCTGCGATGCGCTATTCTGACAACACTTATCCACCTT
GTTCCAGGGATTAGGAGCAGACAGCAAGAACCCTGTACCCTTCTGCTCCCAGTTATCCAGCTGAGTACAG
ATGTGTCTCAGCCTCCACATGTCTATCTTCTGGAAGATGGCCTGGAGTTATGGTTAGTGACATTGGAGAA
CAGCCCATGTGTACACCAGAGCTGCTTCGTATATTTTCAGAACATGTACCTCTTCTTGAGCTTCCATCC
AGCTGCCTTGCAAACGAATTAAGTTCAGAGAATCTCAGAACCTGCTTTAAGATCATCAATGGCTATATCT
TTTTATCATCAACAGAATTTTTACAGACATATGCAGCAGGTTTGTGCCAGTCTTTTATGAGCTGCTACC
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CAGTAGTGATGTCCATTTATCTTGTGTCATGGGTCGAGTCTTACTCCAGAATACCAGCTTCTTTTCTC
ACTTCTTAATGAGATGGGACACGAGTTAATCAGGAGATGGACCAGCTTTTAGGAAATGTGATTGAAATG
TGGGTCGATCGAATGGACAACATCACACAGCCCGAAAGAAAGAACTCTCAGCTTTGGCTTTGCTTCTC
TTCTGCCTTCTGATAATAGTGTTATCCAAGATAAATTTGTGGAATTATAAATATCTCAGTGGAGGCTCT
TCATGATGTCATGACAGAAGACCCTGAAACAAGAACTTACAAAGATTGTATGTTGATGTCTCAACACGAG
GAACCGAAAGTAACAGAAGATGAAGAGCCACCCACAGAACAAGACAAGAGGAAAAAGATGCTGGCCCTGA
AGGACCCGGTGCACACAGTGTCTCTGCAGCAGTTCATCTATGAGAAGCTCAAGGCGCAGCAGGAGATCCT
GGGGGAGCAAGGCTTCCAGTCCCTCATGGAAACGGTGGACACAGAGATTGTACCCAGCTGCAGGAGTTT
TTGCAAGGATTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	BC031900
Insert Size:	2955 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:	<ol style="list-style-type: none">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:	<u>BC031900</u> , <u>AAH31900</u>
RefSeq Size:	4259 bp
RefSeq ORF:	2954 bp
Locus ID:	76582

Cytogenetics: 13 D1- D2.1

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 RPL12, and of UBE2E3 (By similarity).[UniProtKB/Swiss-Prot Function]