

## Product datasheet for **MG211384**

### Ipo11 (BC031900) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo11 (BC031900) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ipo11
Synonyms:	1700081H05Rik, 2510001A17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG211384 representing BC031900  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATCTCAATAGTGCCAGCTCTGTGGTTCTTCAGGTCCTAACACAGGCCACCAGTCAGGATACTGCTG  
 TGTTGAAGCCAGCCGAGGAGCAGCTGAAACAGTGGGAGACACAGCCAGGTTTCTATTCAAGTGTGCTGAA  
 TATTTTTACGAATCACACCCTTGATATAAATGTACGGTGGCTTGCTGTGCTGATTTTTAAACATGGGATT  
 GATCGTTACTGGAGCGTGTGCGACCGCATGCTCTCAGAAGAGGAAAAGTCAACATTGCGTGCAGGGC  
 TCATCACCAACTTTAATGAACCAATAAACCAGATTGCGACCCAGATCGCAGTGTGATTGCCAAGTTGC  
 TCGGTTAGACTGTCTAGGCAGTGGCCGGAGCTCATTCCACTCTGTAGAGTCTGTCAAAGTCCAGGAT  
 GACCTTCGCCAGCACAGAGCTCTGCTGACCTTCTACCATGTCACCAAGACGCTGGCATCCAACGCCTGG  
 CCGCTGACAGAAAGCTATTCTATGATTTAGCTTCTGGAATTTATAATTTTGCCTGTTCTCTGTGGAACCA  
 TCATACAGACACATTTCTGCAGCAGTTTCTTCTGGCAATGAAGCTGCGGTTCTGAGTTCCTAGAGCGA  
 ACACTGCTATCGTTAAAAGTGTGCGGAAGTAACTGTGAATGGATTTGTGGAACCTCATAAGAATATGG  
 AGGTGATGGGTTTTTACATGGAATATTTGAACGTCTAAAACAGTTTCTGGAGTGCAGCAGAAGTATAGG  
 TACAGATAATGTGTGTCGAGATAGACTGAAAAAGACCATCATTCTTTTTACTAAAGTGTCTTGGACTTC  
 TTGGATCAACACCCCATTTCACTTACTCCTCTAATTCAGAGGTCAGTGAATTTTCTGTAAGCTATGTTT  
 TTAAGTGAAGTGGTGAAGGCGTTACATTTGAGCGATTCTTGTCCAGTGCATGAATCTTATTAAGATGAT  
 TGTCAAAAATATGCTTATAAGCCATCCAAAAATTTTGAAGATAGCAGCCCTGAAACACTGAAGCCCAT  
 AAGATTAAGATGGCATTCTTACATATCCACGTTGACAGAGATATGTCGACGATTAGTCTCTCATTATT  
 TTTTATTAACGGAAGAAGAATGACCATTGTGGGAGGAAGATCCAGAAGGCTTTACAGGGGAAGAACAGG  
 AGGAGACTCTTGAAATACAGTTTGAGGCTTGCACTGAAGTATTTTATAGATATATTCCACGAATAT  
 AATCAAACCTTACTCCTGTACTTCTAGAAATGATGCAAACCTTGAAGGTCCAACCAATGTAGAAGATA  
 TGAATGCACTGTTAATCAAAGATGCTGTGTATAATGCTGTGGGATTAGCTGCTTTTGGAGTGTGTTGACAG  
 TGTTGATTTTGTAGTGGTTTAAACCCCAACTTCTTCCGAATTACAAGTTTCTCATAATAGGTATAAG  
 CCATTACGACGCAGGGTATTGGCTCATTGGTCAAGTGGATTTCTGTGAAATCAAGTCTGACTTGAGAC  
 CCATGCTGATGAAGCAATCTGTAACCTGCTTCAAGATCAGGATTTAGTGGTCCGAATTGAAACAGCAAC  
 AACTCTGAAGTAACTGTTGATGATTTTGAATTTAGGACAGATCAGTTTTTACCGTATCTGGAACCATG  
 TTCACACTGCTTTCCAGTTGCTGCAGCAGGTTACAGAGTGTGATACAAAGATGCACGTGCTGCACGTCC  
 TCTCCTGTGTGATCGAAAGAGTCAACGTGCAGATCCGACCATATGTGGGGTGTGGTACAGTATTTGCC  
 TCTTCTGGAAGCAGAGCGAAGAACAACATGCTGCGATGCGCTATTCTGACAACACTTATCCACCTT  
 GTTCAGGGATTAGGAGCAGACAGCAAGAACCTGTACCCTTCTGCTCCCAGTTATCCAGCTGAGTACAG  
 ATGTGTCTCAGCTCCACATGCTATCTTCTGGAAGATGGCCTGGAGTTATGGTTAGTGACATTGGAGAA  
 CAGCCCATGTGTACACCAGAGCTGCTTCGTATATTTCAGAACATGTCACCTCTTCTTGAGCTCCATCC  
 AGCTGCCTTGCAAACGAATTAAGTTCAGAGAATCTCAGAACCTGCTTTAAGATCATCAATGGCTATATCT  
 TTTTATCATCAACAGAATTTTACAGACATATGCAGCAGGTTTGTGCCAGTCTTTTATGAGCTGCTACC  
 AGAGATTACTACAGAAGGTCAAGTTCAAGTGTGAAGTTGTGGAAAATGCCCTTAAAGTGAATCCAGTA  
 TTAGGCCACAGATGTTTCAGCGAATTTACCCTGTGTTTTCAGAGGTGTTATTGAAGGCGAGAGGTATC  
 CAGTAGTGATGTCCATTTATCTTGTGTCATGGGTCGAGTCTTACTCCAGAATACCAGCTCTTTTTCTTC  
 ACTTCTTAATGAGATGGGACACGAGTTTAAATCAGGAGATGGACCAGCTTTTAGGAAATGTGATTGAAATG  
 TGGGTCGATCGAATGGACAACATCACACAGCCCGAAAAGAAAGAACTCTCAGCTTTGGCTTTGCTTCTC  
 TTCTGCCTTCTGATAATAGTGTTATCCAAGATAAATTTTGTGGAATTATAAATATCTCAGTGGAGGCTCT  
 TCATGATGTCATGACAGAAGACCCTGAAACAAGAACTTACAAAGATTGTATGTTGATGTCTAACACGAG  
 GAACCGAAAGTAACAGAAGATGAAGAGCCACCCACAGAACAAGACAAGAGGAAAAAGATGCTGGCCCTGA  
 AGGACCCGGTGCACACAGTGTCTCTGCAGCAGTTCATCTATGAGAAGCTCAAGGCCGAGCAGGAGATCCT  
 GGGGGAGCAAGGCTTCCAGTCCCTCATGGAACCGTGGACACAGAGATTGCACCCAGCTGCAGGAGTTT  
 TTGCAAGGATTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211384 representing BC031900  
 Red=Cloning site Green=Tags(s)

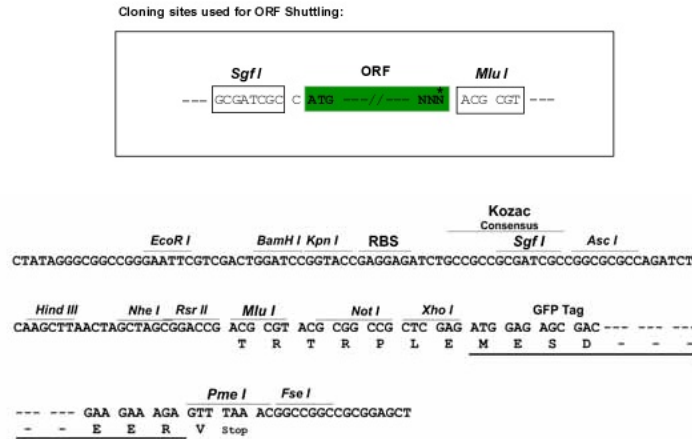
MDLNSASSVVLQVLTQATSQDTAVLKPAEEQLKQWETQPGFYSVLLNIFTNHTLDINVRWLAVLYFKHGI  
 DRYWRRVAPHALSEEEKSTLRAGLITNFNEPINQIATQIAVLIKVARLDCPRQWPELIPTLVESVKVQD  
 DLRQHRALLTFYHVTKTLASKRLAADRKLFYDLASGIYNFACSLWNHHTDTFLQHVSSGNEAAVLSLER  
 TLLSLKVLRLKLVNMGFVPHKNMEVMGFLHGIFERLQKQFLECSRSIGTDNVCRRDRLEKTIILFTKVLDDF  
 LDQHPISFTPLIQRSLFVSYSYVFTEVGEVTFERFIVQCMNLIKMIVKNYAYKPSKNFEDSSPETLEAH  
 KIKMAFFTYPTLTEICRRLVSHYFLLTEEELTMWEEDPEGFTVEETGGDSWKYSRLPCTEVLVIDIFHEY  
 NQTLTPVLEMMQTEGPTNVEDMNALLIKDAVYNAVGLAAFELFDSVDFDQWFKTQLLPELVSHNRYK  
 PLRRRVIWLIQGWISVKFKSDLRPMLEYAICNLLQDQDLVVRIETATTLKLTVDDEFRTDQFLPYLETM  
 FTLLFQLLQQVTECDTKMHVHLVLSVIERVNVQIRPYVGCLVQYPLLWKQSEEHNMLRCAILTTLIHL  
 VQGLGADSKNLYPFLLPVIQLSTDVSQPPHYLLEDGLELWLVLENSPCVTELLRIFQNSPLLELPS  
 SCLANELSSENLRTECFKIINGYIFLSSTEFLQTYAAGLCQSFYELLPEITTEGQVQVLKVVENALKVNPV  
 LGPQMFRQILPCVFRGVIEGERYPVMSIYLAVMGRVLLQNTSFFSLLNEMGHEFNQEMDQLLGNVIEM  
 WYDRMDNITQPERKKLSALALLSLLPSDNVSIQDKFCGIINISVEALHDVMTEDPETRTYKDCMLMSQHE  
 EPKVTDEEPPTEQDKRKKMLALKDPVHTVSLQQFIYEKLLKAQQEILGEQGFQSLMETVDTEIVTQLQEF  
 LQGF

TRTRPLE - GFP Tag - V

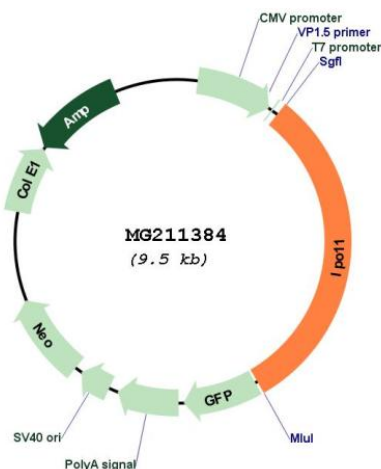
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: BC031900

ORF Size: 2954 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC031900](#), [AAH31900](#)

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]