

## Product datasheet for MR211384

### Ipo11 (BC031900) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo11 (BC031900) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipo11
Synonyms:	1700081H05Rik, 2510001A17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR211384 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATCTCAATAGTGCCAGCTCTGTGGTTCTTCAGGTCCTAACACAGGCCACCAGTCAGGATACTGCTG  
TGTTGAAGCCAGCCGAGGAGCAGCTGAAACAGTGGGAGACACAGCCAGTTTCTATTTCAGTGTGCTGAA  
TATTTTTACGAATCACACCTTGATATAAATGTACGGTGGCTTGTGTGCTGATTTTTAAACATGGGATT  
GATCGTTACTGGAGCGTGTGCGACCGCATGCTCTCTCAGAAGAGGAAAAGTCAACATTGCGTGCAGGGC  
TCATCACCAACTTTAATGAACCAATAAACCCAGATTGCGACCCAGATCGCAGTGTGATTGCCAAGTTGC  
TCGGTTAGACTGTCTAGGCAGTGGCCGGAGCTCATTCCCACTCTGTAGAGTCTGTCAAAGTCCAGGAT  
GACCTTCGCCAGCACAGACTCTGCTGACCTTCTACCATGTCACCAAGACGCTGGCATCCAAACGCTGG  
CCGCTGACAGAAAGCTATTCTATGATTTAGCTTCTGGAATTTATAATTTGCCTGTTCTCTGTGGAACCA  
TCATACAGACACATTTCTGCAGCACGTTTCTTCTGGCAATGAAGCTGCGGTTCTGAGTTCCTAGAGCGA  
ACACTGCTATCGTTAAAAGTCTGCGGAAGTTAACTGTGAATGGATTTGTGGAACCTCATAAGAATAGG  
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TTGGATCAACACCCCATTTCACTTACTCCTCTAATTCAGAGGTCAGTGGAAATTTCTGTAAGCTATGTTT  
TACTGAAGTTGGTGAAGGCGTTACATTTGAGCGATTCTGTCCAGTGCATGAATCTTATTAAGATGAT  
TGTCAAAAATTATGCTTATAAGCCATCCAAAAATTTGAAGATAGCAGCCCTGAAACACTGGAAGCCCAT  
AAGATTAAGATGGCATTCTTACATATCCACGTTGACAGAGATATGTCGACGATTAGTCTCTCATTATT  
TTTTATTAACGGAAGAAGAAGTACCATGTGGGAGGAAGATCCAGAAGGCTTTACAGTGGAAAGAACAGG  
AGGAGACTCTGGAAATACAGTTTGAGGCCTTGCAGTGAAGTATATTTATAGATATATCCACGAATAT  
AATCAAACCTTACTCCTGTACTTCTAGAAATGATGCAAACCTTGAAGGTCCAACCAATGTAGAAGATA  
TGAATGCACTGTTAATCAAAGATGCTGTGTATAATGCTGTGGGATTAGCTGCTTTTGAGCTGTTTGACAG  
TGTTGATTTTGATCAGTGGTTAAAACCAACTTCTCCGAATTACAAGTTTCTCATAATAGGTATAAG  
CCATTACGACGCAGGGTGATTTGGCTCATTGGTCAGTGGATTTCTGTGAAATCAAGTCTGACTTGAGAC



CCATGCTGTATGAAGCAATCTGTAACCTGCTTCAAGATCAGGATTTAGTGGTCCGAATTGAAACAGCAAC  
 AACTCTGAAGTAACTGTTGATGATTTTGAATTTAGGACAGATCAGTTTTTACCCTATCTGGAAACCATG  
 TTCACACTGCTTTTCCAGTTGCTGCAGCAGGTTACAGAGTGTGATACAAAGATGCACGTGCTGCACGTCC  
 TCTCCTGTGTGATCGAAAGAGTCAACGTGCAGATCCGACCATATGTGGGGTGTGGTACAGTATTTGCC  
 TCTTCTCTGGAAGCAGAGCGAAGAACAACATGCTGCGATGCGCTATTCTGACAACACTTATCCACCTT  
 GTTCAGGGATTAGGAGCAGACAGCAAGAACCCTGTACCTTCTGCTCCCAGTTATCCAGTGTGATGACAG  
 ATGTGTCTCAGCCTCCACATGTCTATCTTCTGGAAGATGGCCTGGAGTTATGGTTAGTGACATTGGAGAA  
 CAGCCCATGTGTACACCAGAGCTGCTTCGTATATTTTCAGAACATGTACCTCTTCTTGAGCTTCCATCC  
 AGCTGCCTTGCAAACGAATTAAGTTCAGAGAATCTCAGAACCTGCTTTAAGATCATCAATGGCTATATCT  
 TTTTATCATCAACAGAATTTTTACAGACATATGCAGCAGGTTTGTGCCAGTCTTTTATGAGCTGTACCC  
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 TTCTGCCTTCTGATAATAGTGTTATCCAAGATAAATTTTGTGGAATTATAAATATCTCAGTGGAGGCTCT  
 TCATGATGTCATGACAGAAGACCCTGAAACAAGAACTTACAAAGATTGTATGTTGATGTCTCAACACGAG  
 GAACCGAAAGTAACAGAAGATGAAGAGCCACCCACAGAACAAGACAAGAGGAAAAAGATGCTGGCCCTGA  
 AGGACCCGGTGCACACAGTGTCTCTGCAGCAGTTCATCTATGAGAAGCTCAAGGCGCAGCAGGAGATCCT  
 GGGGGAGCAAGGCTTCCAGTCCCTCATGGAACGGTGGACACAGAGATTGTACCCAGCTGCAGGAGTTT  
 TTGAAGGATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211384 protein sequence  
 Red=Cloning site Green=Tags(s)

MDLNSASSVVLQVLQATSQDTAVLKPAEEQLKQWETQPGFYVLLNIFNHTLDINVRWLAVLYFKHGI  
 DRYWRRVAPHALSEEEKSTLRAGLITNFNEPINQIATQIAVLIKVARLDCPRQWPELIPTLVESVKVQD  
 DLRQHRALLTFYHVTKTLASKRLAADRKLFDLASEGIYNFACSLWNHHTDTFLQHVSSGNEAAVLSLER  
 TLLSLKVLRLKLVNMFVPHKNMEVMGFLHGI FERLQFLECSRSIGTDNVCRDRLEKTIILFTKVLDF  
 LDQHPISFTPLIQRSLFVSYSYVFTEVGEVTFERFIVQCMNLKMIKVNKYAYKPSKNFEDSSPETLEAH  
 KIKMAFFTYPTL TEICRRLVSHYFLLTEEELTMWEEDPEGFTVEETGGDSWKYSLRPCTEVLFIIDIFHEY  
 NQTLTPVLLLEMMQTLLEGPTNVEDMNALLIKDAVYNAVGLAAFELFDSVDFDQWFKTQLPELVSHNRYK  
 PLRRRVIWLIQWISVKFKSDLRPMLEYAICNLLQDQDLVRIETATTLKLVDDDFEFTDQFLPYLETM  
 FTLLFQLLQVTECDTKMHVHLVLSVIERVNVQIRPYVGCLVQYLP LLWKQSEEHNMLRCAITLTIHL  
 VQGLGADSKNLYPFLLPVIQLSTDVVSQPPHYLLEDGLELWLVLENSPCVTPPELLRIFQNMSPLELPS  
 SCLANELSSENLRFCFKIINGYIFLSSTEFLLQTYAAGLCQSFYELLPEITTEGQVQVLKVVENALKVNPV  
 LGPQMFQRILPCVFRGVIEGERYPVMSIYLAVMGRVLLQNTSFFSLLNEMGHEFNQEMDQLLGNVIEM  
 WYDRMDNITQPERKKLSALALLSLLPSDNSVIQDKFCGIINISVEALHDVMTEDPETRTYKDCMLMSQHE  
 EPKVTEDEEPTEQDKRKKMLALKDPVHTVSLQQFIYEKLLKAAQEIILGEQGFQSLMETVDEIVTQLQEF  
 LQGF

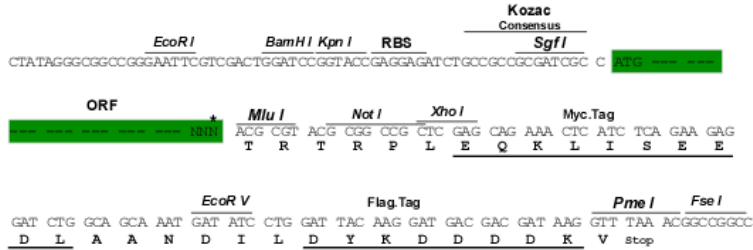
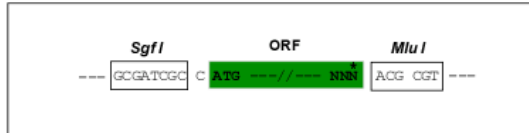
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

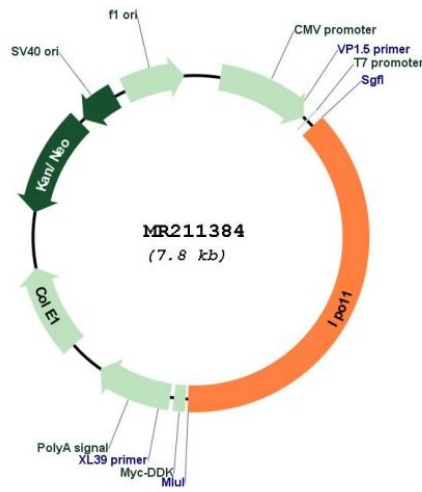
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: BC031900  
 ORF Size: 2952 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC031900</a> , <a href="#">AAH31900</a>
<b>RefSeq Size:</b>	4259 bp
<b>RefSeq ORF:</b>	2954 bp
<b>Locus ID:</b>	76582
<b>Cytogenetics:</b>	13 D1- D2.1
<b>MW:</b>	113.3 kDa
<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 RPL12, and of UBE2E3 (By similarity).[UniProtKB/Swiss-Prot Function]