

Product datasheet for **MR211359**

Ipo11 (NM_029665) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo11 (NM_029665) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipo11
Synonyms:	1700081H05Rik; 2510001A17Rik; AI314624; AW555235; E330021B14Rik; Ranbp11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211359 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCTCAATAGTGCCAGCTCTGTGGTTCTTCAGGTCCTAACACAGGCCACCAGTCAGGATACTGCTG
 TGTTGAAGCCAGCCGAGGAGCAGCTGAAACAGTGGGAGACACAGCCAGGTTTCTATTCAGTGTTGCTGAA
 TATTTTTACGAATCACACCCTTGATATAAATGTACGGTGGCTTGCTGTGCTGATTTTTAAACATGGGATT
 GATCGTTACTGGAGGCGTGTGACCCGATGCTCTCAGAAGAGGAAAAGTCAACATTGCGTGCAGGGC
 TCATCACCAACTTTAATGAACCAATAAACCAGATTGCGACCCAGATCGCAGTGTGATTGCCAAGGTTGC
 TCGGTTAGACTGTCTAGGCAGTGGCCGAGCTCATTCCACTCTGTAGAGTCTGTCAAAGTCCAGGAT
 GACCTTCGCCAGCACAGAGCTCTGCTGACCTTCTACCATGTCACCAAGACGCTGGCGTCCAAACGCTGG
 CCGCTGACAGAAAGCTATTCTATGATTTAGCTTCTGGAATTTATAATTTTGCCTGTTCTCTGTGAAACCA
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 GTTCAGGGATTAGGAGCAGACAGCAAGAACCTGTACCCTTCTGCTCCCAGTTATCCAGCTGAGTACAG
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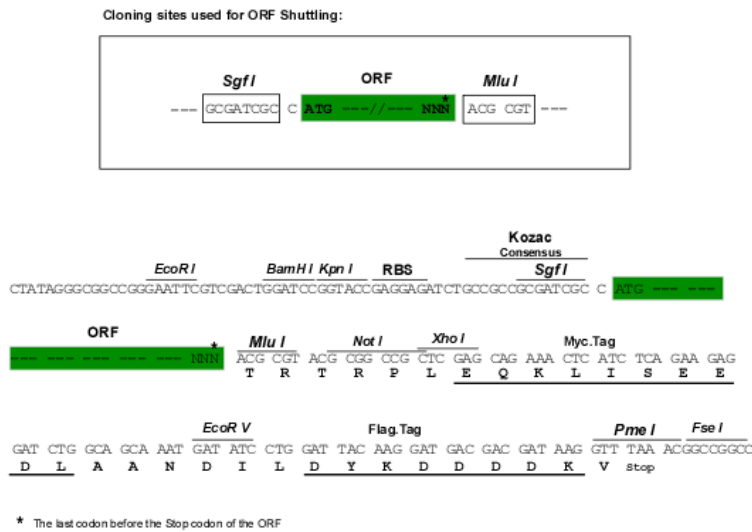
Protein Sequence: >MR211359 protein sequence
 Red=Cloning site Green=Tags(s)

MDLNSASSVVLQVLTQATSQDQAVLKPAEEQLKQWETQPGFYVLLNIFTNHTLDINVRWLAVLYFKHGI
 DRYWRRVAPHALSEEEKSTLRAGLITNFNEPINQIATQIAVLIKVARLDCPRQWPELIPTLVESVKVQD
 DLRQHRALLTFYHVTKTLASKRLAADRKLFYDLASGIYNFACSLWNHHTDTFLQHVSSGNEAAVLSLER
 TLLSLKVLRLKLVNGFVEPHKNMEVMGFLHGIFERLQKQFLECSRSIGTDNVCRDRLEKTIILFTKVLLDF
 LDQHPISFTPLIQRSLFVSYSYVFTEVGEVTFERFIVQCMNLIKMIVKNYAYKPSKNFEDSSPETLEAH
 KIKMAFFTYPTLTEICRRLVSHYFLLTEEELTMWEEDPEGFTVEETGGDSWKYSLRPCTEVLVIDIFHEY
 NQTLTPVLEMMQTEGPTNVEDMNALLIKDAVYNAVGLAAFELFDSVDFDQWFKTQLPELVSHNRYK
 PLRRRVIWIGQWISVKFKSDLRPMLYEAICNLLQDQDLVVRIETATTLKLVDDFEFRDQFLPYLETM
 FTLLFQLLQQVTECDTKMHVHLVLSVIERVNVQIRPVYVGLVQYPLLWKQSEEHNMLRCAITLTLIHL
 VQGLGADSKNLYPFLLPVIQLSTDVVSQPPHYLLEDGLELWLVLENSPCVTELLRIFQNMSPLELSS
 ENLRTCFKIINGYIFLSSTEFLLQTYAAGLCQSFYELLPEITTEGQVQVLKVVENALKVNPVLPQMFQRI
 LPCVFRGVI EGERYPVMSIYLAVMGRVLLQNTSFFSLLNEMGHEFNQEMDQLLGNVIEMWVDRMDNIT
 QPERKKLSALALLSLLPSDNSVIQDKFCGIIINISVEALHDVMTEDPETRTRYKDCMLMSQHEEPKVTEDDEE
 PPTQDKRKKMLALKDPVHTVSLQQFIYEKKAQQEILGEQGFQSLMETVDEIVTQLQEFLLQGF

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Restriction Sites: SgfI-MluI

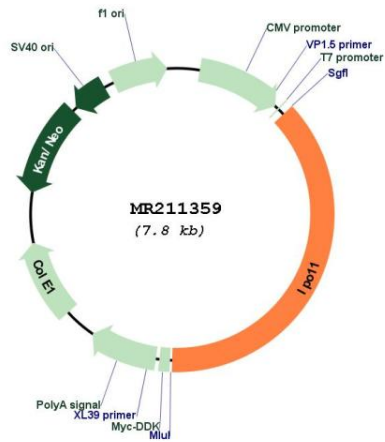
Cloning Scheme:



ACCN: NM_029665
 ORF Size: 2928 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:	<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:	NM_029665.2
RefSeq Size:	4282 bp
RefSeq ORF:	2928 bp
Locus ID:	76582
UniProt ID:	Q8K2V6
Cytogenetics:	13 D1- D2.1
MW:	112.4 kDa
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]

Product images:



Circular map for MR211359