

## Product datasheet for **MR211326**

### Ipo13 (NM\_146152) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo13 (NM_146152) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipo13
Synonyms:	Imp13; Kap13; Ranbp13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211326 representing NM\_146152  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGCGGGAGGAGCAGCTGGGGGCTGCAGGGCTGGAGCAGCACCAGCCTTGGACTTCACTGTGG  
 AGAACGTGGAGAAGGCGCTGCACCAGCTCTACTACGACCCCAATATTGACAACAAGAACCTGGCTCAGAA  
 GTGGCTGATGCAGGCCAGGTCTCTCCACAGCCCTGGCACTTCAGCTGGCAGCTACTACAGCCAGACAAG  
 GTGCCCGAGATCCAGTACTTTGGGGCCAGTGCCCTGCACATCAAGATCTCTCGTACTGGAGCGACATCC  
 CCACCGACCAGTATGAAAGCTTAAAGGCACAGCTTTCACCCAGATCACCCGCTTTGCCAGCGGCTCCAA  
 AATTGTGCTGACTCGGCTGTGCGTGGCGCTGGCCTCACTAGCTCTCAGCATGATGCCTGACGCTTGGCCA  
 TGTGCTGTGGCAGATATGGTTCGGCTCTCCAGGCTGAGGACTCGCCGGTGGATAGCCAGGGCCGTGGCC  
 TGGCCCTGCTAGAGTTGCTGACAGTACTGCCCGAGGAGTTTCAGACCAGCCGCTTGCCCCAGTACCGCAA  
 AGGTCTGGTGGGACCAGCCTGGCTGTGGAGTGTGGGACTGTCTCCATTGCTGGAGCAACTGCTACAA  
 CAGCCCAGCTCTCTAGCTGTGTGCGTCAAGAGTGTCTAAGTGTCTCCAGTTGGGTGCAGCTGGAGG  
 TACCCCTGCAGGACTGTGAGGCGCTCATTCAAGGCTGCCTTCGCCGCTCTGCAGGACTCAGAGCTCTTTGA  
 CAGCAGCGTGGAGGCCATTGTCAATGCCATCTCCCAACCTGATGCCCAAAGGTACGTGAACACACTCCTG  
 AAACTCATTCTCTGGTGTGGGACTGCAGGAACAAGTGCAGGAGGAGTGCAGAATGGGGACATGGAGA  
 CCTCCCATGGCATCTGCCGATTGCTGTGGCCCTGGGCGAGAACCCTCTCGGGCCTTGCTAGACCAAGT  
 AGAGCACTGGCAGAGCTTCTGGCACTCGTCAACATGATCATGTTCTGCACTGGCATCCCTGGCCACTAT  
 CCTGTCAACGAGACCACCAGCTCCCTCACTCTCACTTTCTGGTACACACTGCAGGATGACATTTCTGTCT  
 TTGAGGCAGAGAAGCAGGCTGTGTACCAGCAGGTGTACCGGCCAGTCTACTTCCAGCTGGTGACGTGCT  
 TCTGCACAAGGCCAGTTCCCTTCTGACGAGGAGTATGGATTCTGGTCTCAGACGAAAAGGAGCAGTTTC  
 CGTATCTACAGGGTGGACATCTCAGACACTCATGTATGTCTATGAGATGCTGGGGCTGAGCTGCTTA  
 GCAACCTCTATGACAAGCTGGGCGCTTGTCTCACCAGCTCAGAGGAGCCCTACTCCTGGCAGCACACAGA  
 AGCCCTGCTCTATGGCTTCCAGTCCATTGCAGAGACCATCGATGTCAACTACTCTGATGTGGTACCAGGG  
 CTCATTGGCCTCATCCCACGGATCAGCATCAGCAACGTGCAGTTGGCGGATACTGTGATGTTACCATTG  
 GAGCTCTGTCTGAATGGCTGGCTGACCACCCCGTCATGATCAACAGCGTTCTGCCCTTGTGCTGCATGC  
 CCTAGGCAATCCTGAGCTGTCTGTGTCATCTGTGTCGACCCTCAAAAAGATCTGCCGAGAGTGCAAGTAT  
 GACCTGCCGCCATGCTGCCAACATTGTAGCTGTCTCCAGGATGTGCTGATGAAGCAGATTACAAGA  
 CAAGCCAGTGCATGTGGCTGATGCAGGCCCTGGGCTTCTGCTGTGAGCCCTGCAGGTGGAGGAGATCCT  
 GAAGAACCTGCACTCCCTCATCTCTCCCTACATCCAACAGCTGGAGAAGCTGGCAGAAGAGATACCTAAT  
 CCCTCTAAACAGCTGGCCATTGTCCACATCTTGGGGCTTCTTTCCAACCTCTTTACCACACTGGACGTCA  
 GTCATCATGAGGATGATCATGAAGGCCCTGAACTCCGGAAGTGGCAGTCCACAAGGCCAACCCCGGT  
 GGTGGTTGTGCTGCAGCAGGCTTCCAGCTCATCCAGAAGGTGCTGAGCAAGTGGCTGAATGACGCCAG  
 GTGGTTGAGGCGGTATGCGCCATCTTTGAGAAGTCTGTTAAGACACTGCTGGATGACTTTGCCCCATGG  
 TGCCGACAGCTCTGTGAGATGCTGGGTGGATGTACAGTACTGTTCCCAAGGCTCTGCTTGCACCTCAC  
 CCGGACAGCTGGTCCACATCTTTGCCACAGCCTGCCACTTTCCCAATAGAGGCCCTCTTCCCTGCTG  
 GTGACTTCCGTCACTCACTCAGTCTCTTCCAGCAAGGCCAGGGATCATCTGATATTGTTGATTCAATTA  
 TGCAACTCCTGGCACAGGCTTTGAAGCGGAAGCCAGATTTGTTCTGTGTGAGCGACTGGATGTCAAAGC  
 TGTGTTCCAGTGTGCCGTGCTGGCCCTCAAGTTCCTGAGGCACCTACTGTCAAGGCCTCCTGTGGCTTC  
 TTTACTGAGTGTGCTCGATGTGGGAAATAGAGTCTGTGGGAAAAGTGGTACAGGAAGATGGCCGTA  
 TGCTGCTCATAGCAGTGTGGAGCCATCGGGGCCAGGCCTCCCGTAGCCTCATGGACTGTTTTGCCGA  
 CATCCTGTTGCCCTGAACAAACTGCTTCCAGCTCCTGAGCATGTGGATCAAGGAGGCTCTGCAGCCA  
 CCTGGTTTTCCATCTGCCGCTCAGCCCTGAGCAGAAGGACACCTTTAGCCAGCAGATACTTCGTGAGC  
 GAGTAAACAAGAGACGGGTGAAGGAGATGGTGAAGGAATTTACACTGCTCTGCCGGGGCTACATGGCAC  
 GGACTACACAGCTGACTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211326 representing NM\_146152  
 Red=Cloning site Green=Tags(s)

MERREEQLGAAGAGAALDFTVENVEKALHQLYYDPNIDNKNLAQKWLMAQVSPQAWHFSWQLLQPK  
 VPEIQYFGASALHIKISRYWSDIPTDQYESLKAQLFTQITRFASGSKIVLTRLVALASLALSMMPDWP  
 CAVADMVRLFQAEDSPVDSQGRCLALLELLTVLPEEFQTSRLPQYRKGLVRTSLAVECGTVFPLLEQLLQ  
 QPSSPSCVRQKVLKCFSSWVQLEVPLODCEALIQAAFAALQDSELDSSVEAIVNAISQPDARQRYVNTLL  
 KLIPVLGLQEQLRQAVQNGDMETSHGICRIAVALGENHSRALLDQVEHWQSFLALVNMIMFCTGIPGHY  
 PVNETTSSLTLTFWYTLQDDILSFEAEKQAVYQQVYRPVYFQLVDVLLHKAQFPDSEYGFWSSDEKEQF  
 RIYRVDISDTLMYVYEMLGAELLSNLYDKLGRLLTSSEEPYSWQHEALLYGFQSAIETIDVNYSDVVP  
 LIGLIPRISISNVQLADTMFTIGALSEWLADHPVMINSVLPVHALGNPELSVSSVSTLKKICRECKY  
 DLPPYAANIVAVSQDVLKQIHKTSQCMWLMQALGFLLSALQVEEILKNLHSLISPYIQQLEKLAEEIPN  
 PSNKLAIVHILGLLSNLFITLDVSHHEDDHEGPELRLKLPVQGNPVVVVLQQVFLIQKVLKWLNDQA  
 VVEAVCAIFEKSVKTLDDFAPMVPQLCEMLGRMYSTVPQASALDLTRQLVHIFAHPEAHFPPIEALFLL  
 VTSVTLSLFQQGPRDHPDIVDSFMQLLAQALKRKPDLFLCERLDVKAVFQCAVLALKFPEAPTVCASCGF  
 FTELLPRCGEIESVGKVVQEDGRMLLIAVLEAIGGQASRSLMDCFADILFALNKHCFSLLSMWIKEALQP  
 PGFPSARLSPEQKDTFSQQILRERVNKRVRKEMVKEFTLLCRGLHGTDYADY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9098\\_f08.zip](https://cdn.origene.com/chromatograms/mm9098_f08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



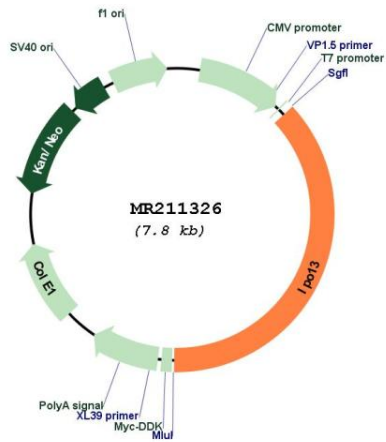
\* The last codon before the Stop codon of the ORF

ACCN: NM\_146152

ORF Size: 2889 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="#">NM_146152.3</a> , <a href="#">NP_666264.1</a>
<b>RefSeq Size:</b>	3588 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	230673
<b>UniProt ID:</b>	<a href="#">Q8K0C1</a>
<b>Cytogenetics:</b>	4 D2.1
<b>MW:</b>	108.2 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 UBC9, the RBM8A/MAGOH complex, PAX6 and probably other members of the paired homeobox family. Also mediates nuclear export of eIF-1A, and the cytoplasmic release of eIF-1A is triggered by the loading of import substrates onto IPO13 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211326