

Product datasheet for **MG211326**

Ipo13 (NM_146152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo13 (NM_146152) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ipo13
Synonyms:	Imp13; Kap13; Ranbp13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211326 representing NM_146152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGCGGGAGGAGCAGCTGGGGGCTGCAGGGCTGGAGCAGCACCAGCCTTGGACTTCACTGTGG
 AGAACGTGGAGAAGGCGCTGCACCAGCTCTACTACGACCCCAATATTGACAACAAGAACCTGGCTCAGAA
 GTGGCTGATGCAGGCCAGGTCTCTCCACAGCCCTGGCACTTCAGCTGGCAGCTACTACAGCCAGACAAG
 GTGCCGAGATCCAGTACTTTGGGGCCAGTGCCCTGCACATCAAGATCTCTCGTACTGGAGCGACATCC
 CCACCGACCAGTATGAAAGCTTAAAGGCACAGCTTTCACCCAGATCACCCGCTTTGCCAGCGGCTCCAA
 AATTGTGCTGACTCGGCTGTGCGTGGCGCTGGCCTCACTAGCTCTCAGCATGATGCCTGACGCTTGGCCA
 TGTGCTGTGGCAGATATGGTTCGGCTCTCCAGGCTGAGGACTCGCCGGTGGATAGCCAGGGCCGTGGCC
 TGGCCCTGCTAGAGTTGCTGACAGTACTGCCCGAGGAGTTTCAGACCAGCCGCTTGCCCCAGTACCGCAA
 AGGTCTGGTGGGACCAGCCTGGCTGTGGAGTGTGGGACTGTCTCCATTGCTGGAGCAACTGCTACAA
 CAGCCCAGCTCTCTAGCTGTGTGCGTCAAGAGTGTCTAAGTGTCTCCAGTTGGGTGCAGCTGGAGG
 TACCCCTGCAGGACTGTGAGGCGCTCATTCAAGGCTGCCTTCGCCGCTCTGCAGGACTCAGAGCTCTTTGA
 CAGCAGCGTGGAGGCCATTGTCAATGCCATCTCCCAACCTGATGCCCAAAGGTACGTGAACACACTCCTG
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 CCTCCATGGCATCTGCCGATTGCTGTGGCCCTGGGCGAGAACCCTCTCGGGCCTTGCTAGACCAAGT
 AGAGCACTGGCAGAGCTTCTGGCACTCGTCAACATGATCATGTTCTGCACTGGCATCCCTGGCCACTAT
 CCTGTCAACGAGACCACCAGCTCCCTCACTCTCACTTTCTGGTACACACTGCAGGATGACATTTCTGTCT
 TTGAGGCAGAGAAGCAGGCTGTGTACCAGCAGGTGTACCGGCCAGTCTACTTCCAGCTGGTGGACGTGCT
 TCTGCACAAGGCCAGTTCCCTTCTGACGAGGAGTATGGATTCTGGTCTCAGACGAAAAGGAGCAGTTTC
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 GCAACCTCTATGACAAGCTGGGCGCTTGTCTCACCAGCTCAGAGGAGCCCTACTCCTGGCAGCACACAGA
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 CAAGCCAGTGCATGTGGCTGATGCAGGCCCTGGGCTTCTGCTGTGAGCCCTGCAGGTGGAGGAGATCCT
 GAAGAACCTGCACTCCCTCATCTCTCCCTACATCCAACAGCTGGAGAAGCTGGCAGAAGAGATACCTAAT
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 GTCATCATGAGGATGATCATGAAGGCCCTGAACTCCGGAAGTTGCCAGTCCACAAAGGCCAACCCGGT
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 CCGGACGCTGGTCCACATCTTTGCCACAGCCTGCCACTTTCCCAATAGAGGCCCTCTTCCCTGCTG
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 TGCAACTCCTGGCACAGGCTTTGAAGCGGAAGCCAGATTTGTTCTGTGTGAGCGACTGGATGTCAAAGC
 TGTGTTCCAGTGTGCCGTGCTGGCCCTCAAGTTCCTGAGGCACCTACTGTCAAGGCCTCCTGTGGCTTC
 TTTACTGAGTGTGCTCGATGTGGGAAATAGAGTCTGTGGGAAAAGTGGTACAGGAAGATGGCCGTA
 TGCTGCTCATAGCAGTGTGGAGCCATCGGGGCGCAGGCTCCCGTAGCCTCATGGACTGTTTTGCCGA
 CATCCTGTTGCCCTGAACAAACTGCTTCCAGCTCCTGAGCATGTGGATCAAGGAGGCTCTGCAGCCA
 CCTGGTTTTCCATCTGCCGCTCAGCCCTGAGCAGAAGGACACCTTTAGCCAGCAGATACTTCGTGAGC
 GAGTAAACAAGAGACGGGTGAAGGAGATGGTGAAGGAATTTACACTGCTCTGCCGGGGCTACATGGCAC
 GGACTACACAGCTGACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211326 representing NM_146152
 Red=Cloning site Green=Tags(s)

MERREEQLGAAGAGAALDFTVENVEKALHQLYYDPNIDKNLAQKWLMAQVSPQAWHFSWQLLQDPK
 VPEIQYFGASALHIKISRYWSDIPTDQYESLKAQLFTQITRFASGSKIVLTRLVALASLALSMMPDAWP
 CAVADMVRLFQAEDSPVDSQGRCLALLELLTVLPEEFQTSRLPQYRKGLVRTSLAVECGTVFPLLEQLLQ
 QPSSPSCVRQKVLKCFSSWVQLEVPDCEALIQAAFAALQDSELDSSVEAIVNAISQPDARVYVNTLL
 KLIPVLGLQEQLRQAVQNGDMETSHGICRIAVALGENHSRALLDQVEHWQSFLALVNMIMFCTGIPGHY
 PVNETTSSLTLTFWYTLQDDILSFEAEKQAVYQQVYRVPVYFQLVDVLLHKAQFPDSEYGFWSSDEKQF
 RIYRVDISDTLMYVYEMLGAELLSNLYDKLGRLLTSSEEPYSWQHEALLYGFQSAETIDVNYSDVVP
 LIGLIPRISISNVQLADTMFTIGALSEWLADHPVMINSVLPVLAHALGNPELSVSSVSTLKKICRECKY
 DLPPYAANIVAVSQDVLKQIHKTSQCMWLMQALGFLLSALQVEEILKNLHSLISPYIQQLKLAEEIPN
 PSNKLAIVHILGLLSNLFTTLDVSHHEDDHEGPELRKLPVPQGNPVVVVLQQVFLIQKVLKWLNDAAQ
 VVEAVCAIFEKSVKTLDDFAPMVPQLCEMLGRMYSTVPQASALDLTRQLVHIFAHEPAHFPIEALFLL
 VTSVTLSLFQQGPRDHPDIVDSFMQLLAQALKRKPDLFLCERLDVKAVFQCAVLALKFPEAPTVMKASCGF
 FTELLPRCGEIESVGKVVQEDGRMLLIAVLEAIGGQASRSLMDCFADILFALNKHCFSLLSMWIKEALQP
 PGFPSARLSPEQKDTFSQQILRERVNKRVRKEMVKEFTLLCRGLHGTDYADY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

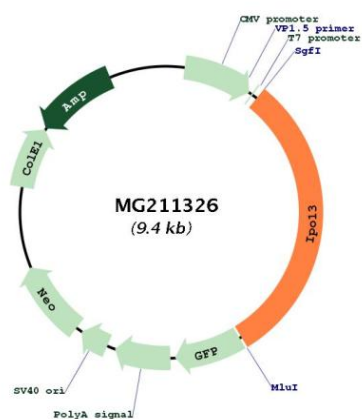


ACCN: NM_146152

ORF Size: 2889 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_146152.3 , NP_666264.1
RefSeq Size:	3588 bp
RefSeq ORF:	2892 bp
Locus ID:	230673
UniProt ID:	Q8K0C1
Cytogenetics:	4 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 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 MG211326