

Product datasheet for **MR210501**

Ipo4 (BC003469) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo4 (BC003469) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipo4
Synonyms:	RanBP4, Imp4a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR210501 representing BC003469
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGAGACTCCCAAGCACTTTGCTGTACAGTTGTGGACATGCTGGCACTACATCTTCCCCCTGAGA
 AGCTCTGTCCCATGTGATGCCCATGCTGGAAGAAGCCTTGCGGAGCGAGGACCCATACCGCGCAAAGC
 AGGATTCTGGTGTGGCTGTGCTGTGATGGTGCAGGCGACCACATCAGGCAGAGACTGCTGTACCCA
 CTGCTACAGATTGTGTGAAGGGCTGGATGACCCCTCACAGATTGTTCTGAATGCTGCTGTTCGCC
 TGGGCCAGTTTTAGAGAACTTACAGCCCATATCAGCAGCTACTCTGAGGAGGTGATGCCCTTCTCT
 CTCCTACCTGAAGTCAGTGCCGATGGGAAACACACACCACCTGGCCAAGGCTGCTATGCTCTGGAGAAT
 TTTGTGGAGAACCTAGGGCCAAAGTGCAGCCCTACCTCCGGAGCTTATGGAATGTATGCTGCAGCCAT
 TGAAGAACCCAGCAAAGCCCGACCAAGGAGCTAGCTGTGAGCGCCATAGGGGCCATTGCCACAGCGGC
 CCAGGATTCCCTGCTGCCCTACTTCCCTACCATCATGGATCTTCTCCGGAGTTCTTGTGACAGGCCAC
 GAAGACTTTCATCTTGTGCAGATCCAGAGCCTGGAGACCCTGGGAGTGCTAGCACGAGCCCTGGGAGAGT
 CCATGAAGCCCTGGCTGAGGAATGCTGTGAGCTTGGGCTAGGGTTATGCATCCATATAGATGACCTGA
 CGTGAGGCGCTGCACGTACAGCCTGTTTGACAGCCTTATCAGGGTTAATGGGAGAGGGCTTGGGACCTAC
 CTGCCTCAGATTACCACGCTCATGCTGCTGTGCTGCGCTCCACTGAGGGCATTGTGCCACAGTATGACG
 GGATCAGTCTCTTCTGCTGTTTGATGACGACAGCGAAGCAGAAGAGGAGGAGGAGCTCATGGATGAAGA
 TATGGAAGAGGAGGGGGATGACTCTGAGATCTCGGGGTATAGTGTGGAGAATGCCTTCTTTGATGAGAAA
 GAAGACACCTGCACCGCCTGGGGGAGATCTCCATGAACACCTGTGTGGCTTTTCTCCATTTCATGGATG
 CCACCTTCGATGAAGTATACAACTGCTGGAGTGCCCTCATATGAATGTGCGGAAGTCAGCTTACGAAGC
 GCTGGGACAGTTCTGCTGTGCACTGCATAAGGCCTCTCAGAGAAGCTCCTCAGATCCAGCAGCAGTCCC
 GTTCTGCAGACCTCCCTGGCTCGAGTGATGCCAGCTTACATGCAGGCCGTGAAAGTAGAAAGGGAGCGCC
 CAGTGGTGATGGCCGTGCTGGAGTCCCTGACAGGGGTGCTGCGCACCTGCGGCAGCCTTGCACTGCAGCC
 TCCTGGGCGGCTCAGTGAGCTCTGCAACGTGCTCAAGGCTGTGCTGCAGAAAAAGACGGCCTGTCAGGAC
 GCCGAGGAGGATGATGACGAAGATGATGACCAGGCAGAGTATGACGCCATGTTACTAGAACATGCTGGAG
 AGGCCATTCCCGTCTGGCAGCCACAGCTGGAGGACACGCCTTCGCTCCCTTCTTGGCACGTTCTTGCC
 ATTGTTGCTGTGAAGACGAAACAGAGCTGTACAGTGGCAGAGAAGTCCTTTGCTGTGGAAACCCTGGCA
 GAGTCCATTTCAGGGTCTAGGGACCGCTCAGCCAGTTTGTGTCTCGGCTGTTCCCTGTGCTGTTAAACA
 ATGCCCGGAAGCAGACCCTGAGGTGCGGAGCAATGCCATCTTTGGGTTGGGCGTACTGGCAGAGCATGG
 CGGCTGCCCTGCTCAGGACCACTTCCCTAAGCTACTGGGCCTCCTTTGCCCCTGCTGGCAAGGGAGCGA
 CATGATCGAGTCCGTGATAACATCTGCGGGGCTTGGCCGTGACTGATGGCCAGTCCAGTAGGAAAAA
 CGGAGCCCCAGGTGCTGGCTACCTGCTACGTGCCCTGCCCTGAAGGAAGACATGGAGGAGTGGCTCAC
 TATAGGTACCTCTTCAGCTTCTGCACCAGAACATCTGAGCAGGTTGTGGATGTGGCTTCAGAACTC
 CTGCGCATCTGCAGCCTGATCCTGCCGGAACCGGATCCCTCCAGACACCAAGGCGGCCCTGCTGCTGC
 TCCTGACGTTCTGGCCAAGCAGCACACCGACAGCTTCCACACAGCCCTGGGCTCTTGCCAAATGATAA
 AGCTCAGGAACCTCAGGCCATGATGGGCCTCACT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210501 representing BC003469
 Red=Cloning site Green=Tags(s)

MGETPKHFAVQVVDMLALHLPPEKLCPHVMPMLEEALRSEDYPYQRKAGFLVLAVLSDGAGDHIRQRLLYP
 LLQIVCKGLDDPSQIVRNAALFALGQFSENLPQHISSYSEEVMPLLL SYLKSVPMGNTTHLAKACYALEN
 FVENLGPVKVQPYLPELMECMLQPLKNPSKARTKELAVSAIGAIATAAQDSLLPYFPTIMDLLREFLLTGH
 EDFHLVQIQSLETLGVLARALGESMKPLAECCQLGLGLCIHIDDPVRRCTYSLFAALSGLMGEGLGPY
 LPQITTLMLLSLRSTEGIVPQYDGISSFLLFDDDDSEAEIEEEELMDEDMEEEGDDSEISGYSVENAFFDEK
 EDTCTALGEISMNTCVAFLPFMDATFDEVYKLLCEPHMNVKRSAYEALGQFCCALHKASQRSSSDPSSSP
 VLQTSLARVMPAYMQAVKVERERPVMVAVLESLTGVLRTCGSLALQPPGRLSELCNVLKAVLQKKTACQD
 AEEDDDDDDDQAEYDAMLLHAGEAIPVLAATAGGHAFAPFFATFLPLLCKTKQCTVAEKSFAVGTLA
 ESIQGLGTASAQFVSRLFPVLLNNAREADPEVRSNAIFGLGVLAEHGGCPAQDHFPKLLGLLLPLLARER
 HDRVRDNICGALARVLMASPVGKTEPQVLATLLRALPLKEDMEEWLTIGHLFSFLHQNNEQVVDVASEL
 LRICSLILPDNRIPPDTKAALLLLLTFLAKQHTDSFHTALGSLPNDKAQELQAMMGLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC003469

ORF Size: 2274 bp

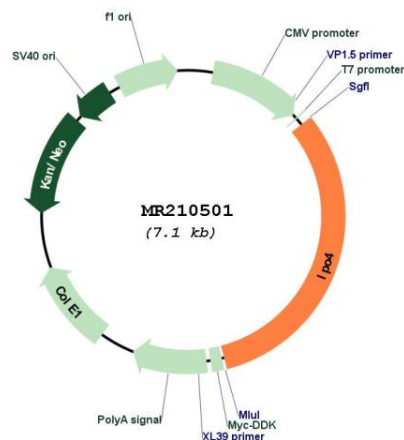
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC003469.1</u>
RefSeq Size:	2833 bp
RefSeq ORF:	2276 bp
Locus ID:	75751
Cytogenetics:	14 28.19 cM
MW:	103.8 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 RPS3A. Acts as chaperone for exposed basic domains.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210501