

Product datasheet for MR211627

Ipo5 (NM_023579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ipo5 (NM_023579) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ipo5
Synonyms:	1110011C18Rik; 5730478E03Rik; AA409333; C76941; IMB3; Kpnb3; Ranbp5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211627 representing NM_023579 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGCCGCGCGGAGCAGCAACAGTTCTACCTGCTCCTGGAAACCTGCTCAGCCCCGACAATG
TGGTCCGAAACAGGCGGAGGAAACCTATGAGAATATCCAGGCCGGTCCAAGATCACATTCCTTTACA
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TCCTCTGCATTTGATGAAGTCTACCCAGCTCTCCATCAGATGTCCAGACTGCCATCAAGAGTGAATTGC
TAATGATCATTAGATGGAACACAATCCAGCATGAGGAAGAAAATCTGTGATATTGCTGCAGAATTGGC
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AGCTCACAAAACATGGGACTCCGGGAAGCTGCCCTTCACATATTTTGAACCTTTCCTGGAATTTTGGGA
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TCCATTATGGTGCTCAAGCTCCAGGAGCTGATTAGAAAGGCACCAAGTTAGTTTTGGAACAAGTTGTGA
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 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>MR211627 representing NM_023579
 Red=Cloning site Green=Tags(s)

MAAAAAEQQFYLLGNLLSPDNVVRKQAEETYENIPGRSKITFLLQAIRNTTAAEEARQMAAVLLRRL
 SSAFDEVYPALPSDVQTAIKSELLMIQMETQSSMRKKICDIAELARNLIDEDGNNQWPEGLKFLFDSV
 SSQNMGLREAALHIFWNFPGIFGNQQHYLDVIKRMVLVQCMQDQEHPSIRTL SARATAAFILANEHNVAL
 FKHFADLLPGFLQAVNDSCYQNDQSVLKSVEIADTVPKYLRPHLEATLQLSLKLCGDTNLMNMQRLAL
 EVIVTLSETAAAMLKHTSLIAQTIPOMLAMVDLEEDWANADELEDDDFDSNAVAGESALDRMACGL
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 LQYVCDNSPEVRQAAAYGLGVMAQFGGDNYRPFCTDALPLLVRVIQAPEAKTKENVNATENCISAVGKIM
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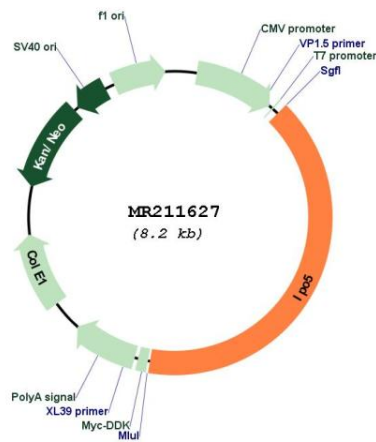
UniProt ID: [Q8BKC5](#)

Cytogenetics: 14 E4- E5

MW: 124 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. Mediates the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. Binds to CPEB3 and mediates its nuclear import following neuronal stimulation (PubMed:22730302). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211627