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Product datasheet for MR211402

Inpp5b (NM_008385) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5b (NM_008385) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp5b
Synonyms:	5PTase; 75kD; AW260155; INPP5P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211402 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCAGTCTGTGGCAATCCAGGAGACCCTGGTTGAGGGGGAATACTGCGTCATCGCAGTCCAAGGTG
TGCTGTGTAAGGGAGATAGCCGGCAGAGCCGCCTGCTCGGGCTGGTGAGGTACCGGCTGGAAAATGACGC
CCAGGAGCATGCTCTCTTCCTGTATACACACCGGAGGATGGCCATCACAGGAGACGATGTATCTCTGGAC
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CACCAGAACGTTCCTCCAGGAAGTGGCCAGAGCCTGTCCAGGTTTCGACCCTGAGACGCGGGATCCCGAG
TTCGAGTGGCTGTCAAGACACACATGCGCGGAGCCCGATGCCGAGTCGCCGAAACCGCGCGAGTGGAATT
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AGGAACCAAGACTACAGAGACATTTGTTCTCGAATGCAGTTCCCTCAGGTGGATCCGAGCCAACCCCCTC
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GCCCAAGAGTTTATTCACCAGTTCCTCTGCGGTCCACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211402 protein sequence
Red=Cloning site Green=Tags(s)

MDQSVAIQETLVEGEYCVIAVQGVLCKGDSRQSRLLGLVRYRLENDAQEHALFLYTHRRMAITGDDVSLD
QIVPLSKDFMLEEVSPDGELYILGSDVTVQLNTAELKLVFQLPFGSHTRTFLQEVARACPGFDPETRDPE
FEWLSRHTCAEPDAESPKPREWNSDPGTRSGFAPIGGSRHQSRNARRGLEDVLPRGPGYILLWGGAAEEP
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RNQDYRDICSRMQFPQVDPSQPPLTINKHDVILWLGDLNYRIEELDVGKVKKLVEEKAFQTLYAHDQLKI
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GNYAASKQIILTLPSFHKNVFNYLMAFLQELLKNSANNHLDENILASIFGSLLLRNPARHQKLDMAEKKK
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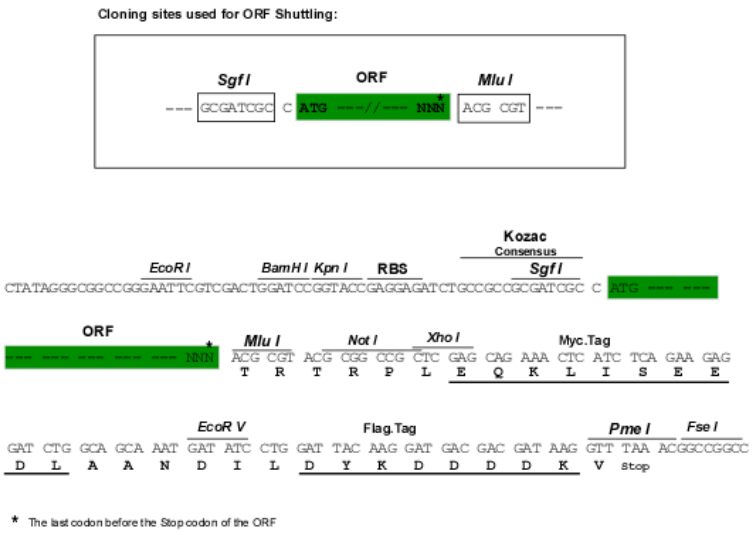
Restriction Sites:

SgfI-MluI

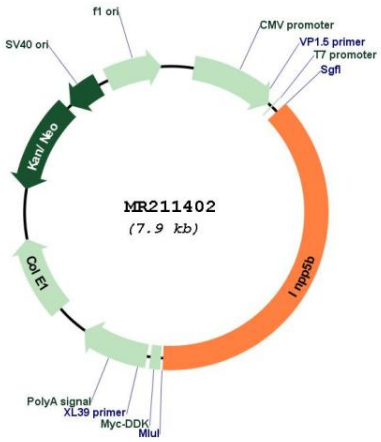
Cloning Scheme:



ACCN:	NM_008385
ORF Size:	2982 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.
RefSeq:	NM_008385.3, NP_032411.3
RefSeq Size:	3826 bp

RefSeq ORF:	2982 bp
Locus ID:	16330
UniProt ID:	Q8K337
Cytogenetics:	4 57.89 cM
MW:	112.8 kDa
Gene Summary:	This gene encodes a member of the inositol polyphosphate-5-phosphatase (INPP5) family. This protein hydrolyzes the 5' phosphate from phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol-1,4,5-trisphosphate, which results in changes to multiple signaling pathways. This protein may be involved in protein trafficking and secretion. Homozygous knockout mice exhibit impaired spermatogenesis and male sterility. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for MR211402