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Product datasheet for RC211134

INPP4B (NM_003866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP4B (NM_003866) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INPP4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC211134 representing NM_003866
Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

ATGGAAATTAAAGAGGAAGGGGCATCAGAAGAAGGGCAGCACTTTCTTCCTACAGCCCAGGCCAATGATC
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CAAGGATCTCGTGGCTCCTGTCCGTGATCGTAAACTGAATACACTGGTGCAGATCTCCGTAATCCACCCC
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CTGGTGTCACATTCCCATCTGAGTATCCCATCTATGAGGAGACCAAAATAAAACTAACAGTCTATGATGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC211134 representing NM_003866
Red=Cloning site Green=Tags(s)

MEIKEEGASEEGQHFLPTAQANDPGDCQFTSIQKTPNEPQLEFILACKDLVAPVRDRKLNTLVQISVIHP
VEQSLTRYSSTEIVEGTRDPLFLTGVTFPSEYPIYEETKIKLTVYDVKDKSHDTVRTSVLPEHKDPPPEV
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ECTAPESVSGKDNLPFLNSVLKNPVCKLYRFPTSDNKWMRIREQMSESILSFHIPKELISLHIKEDLCRN
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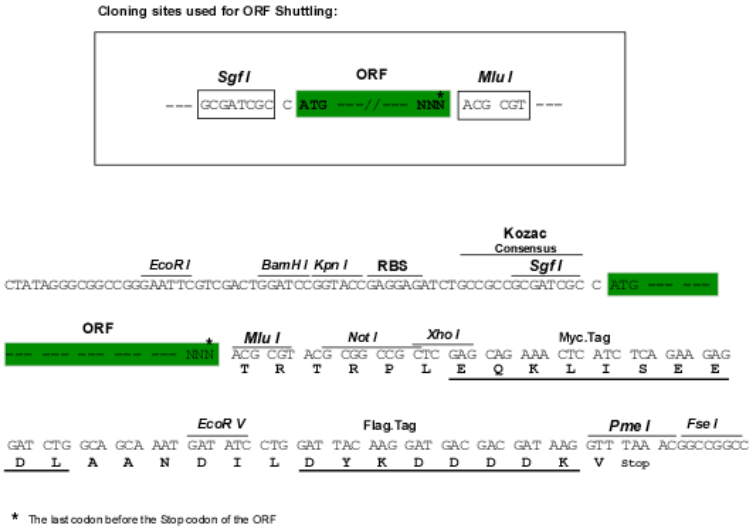
YYRPPEGTYGKADT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3428_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

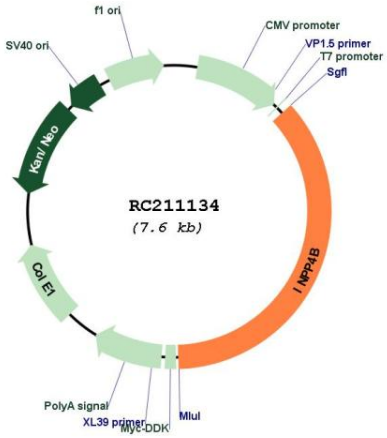


ACCN: NM_003866

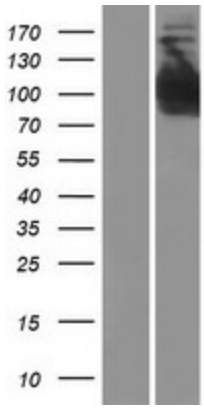
ORF Size:	2772 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	NM_003866.3
RefSeq Size:	2937 bp
RefSeq ORF:	2775 bp
Locus ID:	8821
UniProt ID:	O15327
Cytogenetics:	4q31.21
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	104.6 kDa

Gene Summary: INPP4B encodes the inositol polyphosphate 4-phosphatase type II, one of the enzymes involved in phosphatidylinositol signaling pathways. This enzyme removes the phosphate group at position 4 of the inositol ring from inositol 3,4-bisphosphate. There is limited data to suggest that the human type II enzyme is subject to alternative splicing, as has been established for the type I enzyme. [provided by RefSeq, Jul 2008]

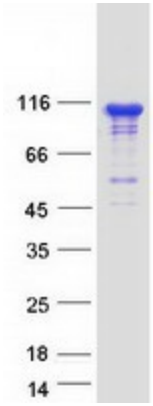
Product images:



Circular map for RC211134



Western blot validation of overexpression lysate (Cat# [LY420324]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219612] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INPP4B protein (Cat# [TP311134]). The protein was produced from HEK293T cells transfected with INPP4B cDNA clone (Cat# RC211134) using MegaTran 2.0 (Cat# [TT210002]).