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Product datasheet for RC218886

INPP4A (NM_001566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP4A (NM_001566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INPP4A
Synonyms:	INPP4; TVAS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218886 representing NM_001566
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGCAAGAGAGCACAGCCCTCGCCATGGTGCCAGGGCCCGTGCAATGCAGCGGGCTTCCACCATCG
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218886 representing NM_001566
Red=Cloning site Green=Tags(s)

MTAREHSPRHGARARAMQRASTIDVAADMLGLSLAGNIQDPDEPILEFSLACSELHTPSLDRKPNSFVAV
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DVFPCAGSCTSKKDCSPPPEESSPGEWSEALYPLLTTLTDCVAMMSDKAKKAMVFLLMQDSAPTIATYLS
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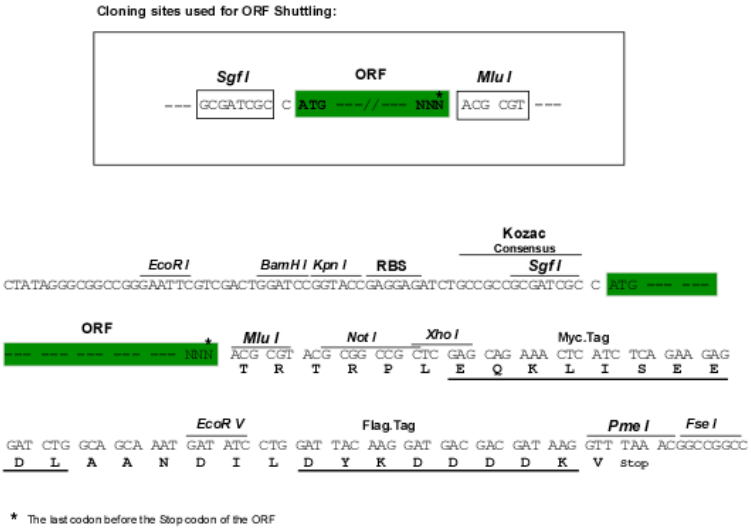
AERFGDTSLQEVINVESLVRLNSYFEQFKEVLPEDCLPRSRSQTCLPELLRFLGQNVHARKNKNVDILWQ
AAEICRRLNGVRFTSCKSAKDRTAMSVTLEQCLILQHEHGMAPQVFTQALECMRSIGTREVVTQKNLSGL
VPIRDLRLDPSLLCSIPLLALSPNLLIVWLFLSIAYLVTKLRCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6676_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

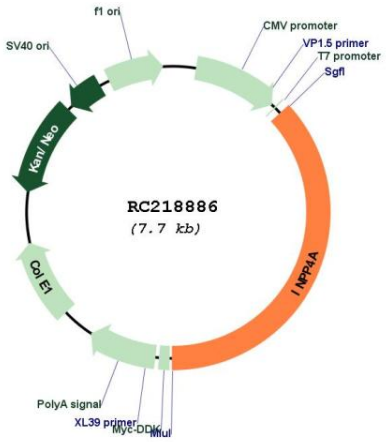


ACCN: NM_001566

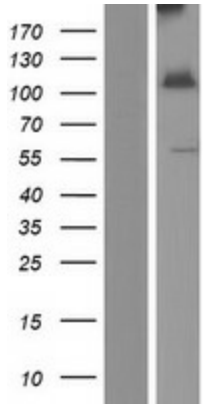
ORF Size: 2862 bp

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_001566.1, NP_001557.1
RefSeq Size:	3224 bp
RefSeq ORF:	2865 bp
Locus ID:	3631
UniProt ID:	Q96PE3
Cytogenetics:	2q11.2
Protein Families:	Transmembrane
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	107.1 kDa
Gene Summary:	This gene encodes an Mg++ independent enzyme that hydrolyzes the 4-position phosphate from the inositol ring of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate, and inositol 3,4-bisphosphate. Multiple transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Aug 2008]

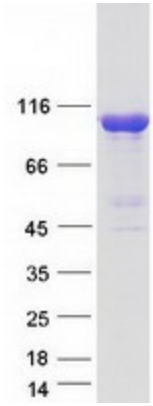
Product images:



Circular map for RC218886



Western blot validation of overexpression lysate (Cat# [LY419858]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218886 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INPP4A protein (Cat# [TP318886]). The protein was produced from HEK293T cells transfected with INPP4A cDNA clone (Cat# RC218886) using MegaTran 2.0 (Cat# [TT210002]).