

Product datasheet for **RC211900**

INPP4A (NM_004027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP4A (NM_004027) 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)



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ORF Nucleotide Sequence:

>RC211900 representing NM_004027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGCAAGAGAGCACAGCCCTCGCCATGGTGCCAGGCCCCGTGCAATGCAGCGGGCTTCCACCATCG
 ACGTGGCGGCCGACATGCTGGCCCTCTCTCTGGCAGGAAATATACAAGACCCAGATGAGCCATTTTAGA
 ATTTAGCTTAGCTTGCACTGAGCTGCATACTCCATCGCTAGATCGAAAGCCAAATAGTTTTGTTGCGGTG
 AGTGTCAACACCCTCTCAGGCATTCTGGACGAAGCATGCACAGACGGAGATCATTGAGGGAACCAACA
 ATCCTATATTTCTAAGCAGTATTGCCTTTTCAAGACTCTTTATCAATCAGATGACACAAGTCAAACCT
 CTCCGTGATGATGTCAAAGATAGATCTCAGGGAACAATGATTTACTGGGCTCTGGAACGTTTATTGTC
 AAAGATCTGCTCCAGGACAGGCATCATAGGTTGCATTTAACTAAGGTCTGCAGAGAGTGACCGTGTAG
 GTAACATCACCGTATTGGCTGGCAGATGGAGGAGAAGTCAGACCAACGGCCCCCTGTACCCGGTCTGT
 GGACACTGTCAATGGGAGGATGGTTCTTCTGTGATGAGAGCTTGACGGAGGCGTTAGGAATCCGATCC
 AAATACGTTTATTGCGAAAGGACACTTTGCTGAAATCGGTGTTCCGGTGGTGCATCTGCCGCATGTACC
 GTTTTCCAACCACTGATGGTAACCAATTTGCGGATCCTGGAGCAGATGGCAGAGAGCGTGCTCCCTGCA
 CGTGCCCCGGCAGTTCGTGAAGCTCCTACTAGAGGAAGATGCAGCCAGAGTGTGTGAGCTGGAGGAGCTG
 GGAGAGCTGTCCCTTGTGGGAGAGCCTCCGGCGCCAAATTTGTCACCCAGTACCAGACCATCATCTCA
 CATACCAGGAGAACCTGACCGACCTCCATCAGTACAGAGGGCCCTCGTTTAAAGCAAGCAGTTTGAAGC
 AGATAAAAAGTTAGAATTTGTTCCACAAAATTGCACATACAAAGGATGAGAGTTCAAGACGATGGAGGA
 TCAGATCAGAACTACGACATCGTACCATTGGGGCGCCAGCAGCACACTGCCAAGTTTTAAGTCAGGAG
 GTCTCCGCAAAAAGCTGCACAAAATTTGAAGAGACCAAGAAACATTTTGGAGAGTGTGTACATCATCTGG
 CTGCCAGTCCATAATCTACATACCCAGGATGTTGTGAGAGCCAAGGAGATCATCGCCAGATCAACACC
 CTGAAAACCCAAGTGAGTTACTACGCAGAGCGGCTGTCAAGGGCAGCAAGGACAGGTCTGCCACTGGCC
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 GGCCAACCTCCATCCATGGGCTGAACGCTGCACGGCCTGACTACATTGCCTCCAAGGCTCTCCCACTTCG
 ACTGAGGAGGAGCAGGTGATGCTTAGAAATGACCAGGACACCCTCATGGCCCGTGGACAGGAGAAACA
 GCCGATCTTCCCTGCAGGTGGACTGGCACGAGGAGGAGTGGGAGAAAGTGTGGCTGAACGTGGACAAGAG
 CCTAGAGTGCATCATTACGCGTGTGGACAAGCTGCTGCAGAAGGAGCGGCTGCATGGCGAGGCTGTGAG
 GATGTCTTCCCTGTGCAGGCAGCTGCACCAGCAAGAAAGATTGCAGTCCCCCTCTGAAGAGTCCAGCC
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 CTGCAGTACCGCCGTGACGTGGTCTTCTGCCAGACGCTGACCGCCCTCATCTGCGGCTTCATCATTAAGC
 TGAGGAACTGCCTGCATGACGACGGCTTCTGCGCCAGCTCTACACCATCGGGCTGCTGGCCAGTTCGA
 GAGCCTGCTGAGCACCTACGGGGAGGAGCTGGCAATGCTGGAGGACATGAGCCTTGGGATCATGGACTTG
 AGGAACGTGACCTTCAAAGTCACTCAGGCCACTTCCAGCGCTCCGACAGATGCTGCCCGTTCATCACAG
 GAAATCGCGACGGGTTAACGTGCGGGTCCCTCTGCCGGGCCGCTGTTTACGCTTCCCCGGGAGAT
 CCAGAGTGGCATGCTGCTGCGAGTGCAGCCCTCTTCAACGTGGGCATCAATGAGCAGCAGACACTG
 GCCGAGAGGTTTGGCGATACGTCTTACAAGAAGTCATCAACGTGGAGAGTTTGGTGGGTTAAATTCCT
 ACTTTGAGCAGTTTAAAGGAAGTTTTGCCTGAGGATTGCCTGCCTCGTCTCGCAGTCAAGCTGCCTGCC
 AGAGCTGCTGCGGTTTCTGGGTGAGAACGTGCATGCCCGAAGAATAAGAAGCTCGACATTTCTGGCAA
 GCTGCTGAGATCTGCCGCCCTTAATGGGGTCCGGTTCACCAGCTGCAAGAGCGCTAAGGACCGTACAG
 CCATGTCGGTGACACTGGAGCAGTGCCTGATCCTGCAACACGAGCATGGCATGGCCCCGAGGTCTTAC
 CCAGGCCCTGGAGTGCATGCGCAGTGGGGTGTGCAAGAGAAAATACAATGAAGAATGTTGGAAGTCGC
 AAATATGCATTTAATTCCTGCAGTGAAGGCTTCCCCAAGCATTACAGGCTCCCGAAGGACTTACG
 GAAAAGTTGAAACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211900 representing NM_004027
 Red=Cloning site Green=Tags(s)

MTAREHSPRHGARARAMQRASTIDVAADMLGLSLAGNIQDPDEPILEFSLACSELHTPSLDRKPNFSFVAV
 SVTTPPQAFWTKHAQTEIIEGTNNPIFLSSIAFFQDSLINQMTQVKLSVYDVVKDRSQGTMYLKSGGTFIV
 KDLLQDRHHRLHLTLRSAESDRVGNITVIGWQMEEKSDQRPPVTRSVDTVNGRMVLPVDESALTEALGIRS
 KYASLRKDTLLKSVFVGGAIICRMVRFPTTDGNHLRILEQMAESVLSLHVPRQFVKLLLEEDAARVCELEEL
 GELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYRGPSFKASSLKADKLEFVPTNLHIQRMVQDDGG
 SDQNYDIVITIGAPAAHCQGFKSGGLRKLKHKFEETKKHFEECCSSGCQSIYIPQDVVRAKEIIAQINT
 LKTQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCDCKLLANSIHGLNAARPDYIASKASPTS
 TEEEQVMLRNDQDTLMARWTGRNSRSLQVDWHEEEWEKVLNVDKSLECIQQRVDKLLQKERLHGEGCE
 DVFPCAGSCTSKKDCSPPEESSPGWSEALYPLLTTLDVCAMMSDKAKKAMVFLMQDSAPTIIATYLS
 LQYRRDVVFCQTLTALICGFIKLRNCLHDDGFLRQLYTIGLLAQFESLLSTYGEELAMLEDMSLGIMDL
 RNVTFKVTQATSSASADMLPVITGNRDGFNVVRVPLPGPLFDALPREIQSGMLLRVQPVLFVNGINEQOTL
 AERFGDTSLQEVINVELVRLNSYFEQFKEVLPEDCLPRSRSTCLPELLRFLGQNVHARKNKNVDILWQ
 AAEICRRLNGVRFTSCKSAKDRAMSVTLEQCLILQHEHMAPQVFTQALECMRSEGCRRRENTMKNVGSR
 KYAFNSLQLKAFPKHYRPEPTYGKVVET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6808_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



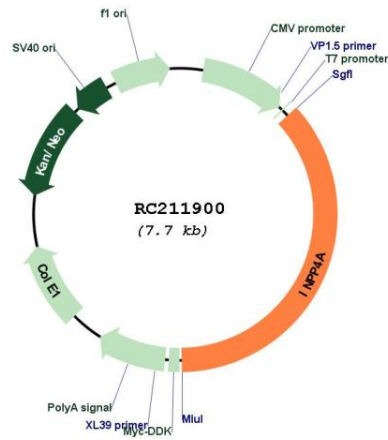
* The last codon before the Stop codon of the ORF

ACCN: NM_004027

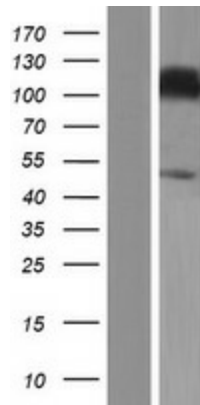
ORF Size: 2814 bp

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:	<ol style="list-style-type: none">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_004027.3
RefSeq Size:	3217 bp
RefSeq ORF:	2817 bp
Locus ID:	3631
UniProt ID:	Q96PE3
Cytogenetics:	2q11.2
Protein Families:	Transmembrane
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	105.5 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]

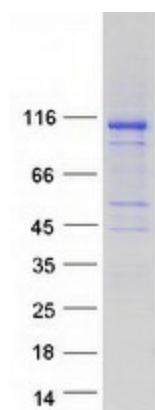
Product images:



Circular map for RC211900



Western blot validation of overexpression lysate (Cat# [LY418285]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211900 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INPP4A protein (Cat# [TP311900]). The protein was produced from HEK293T cells transfected with INPP4A cDNA clone (Cat# RC211900) using MegaTran 2.0 (Cat# [TT210002]).