

Product datasheet for **MR230861**

Inpp4a (NM_001290798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4a (NM_001290798) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp4a
Synonyms:	107kDa; 9630012D15; D130048C09Rik; R74740
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230861 representing NM_001290798
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGTGTGTGTTTTGCTTGCAGGGTATGTGAGTTGGAAGAGTTGGGGAGCTGTCCCCTTGTGGGAGA
GCCTCCGGCGCCAGATTGTCACCCAGTATCAGACTATCCTCACCTACCAGGAGAATCTGACTGACCT
CCATCAGTACAAAAGTCTTCTTTAAAGCAAGCAGTTTAAAAGCAGATAAAAAGTTAGAATTTGTCC
ACAAACCTGCACATACAACGGATGCGAGTTCAAGATGATGGAGGCTCAGATCAGAACTACGATGTCGTCA
CTATTGGAGCCCCAGCAGCACACTGCCAAGTTTTAAGTCAGGAGGTCTTCGAAAAAGCTGCACAAGTT
TGAAGAGGCCAAGAAACACAGTTTTGAGGAGTGTGTACATCTTCTAGTGGCCAGTCCATCATCTACATA
CCACAGGACATCACCCGAGCCAAGGAGATCATTGCCAGATCAACACCCTAAAAACCCAGGTGAGTACT
ACGCGGAACGGCTCTCAAGGGCTGCGAAGGACAGGTGAGTACTGGCCTTGAGAGGACTCTGCCATCTT
GGCAGACAAGACTCGGCAGTTGGTACTGTCTGTGACTGTAAGCTGCTGGCCAACCCATCCATGGGCTG
AATGCAGCTCGGCCGACTACATCGCTTCAAGGCCTCCCTACCTCGACTGAGGAGGAGCAGGTGATGC
TTCGGAATGACCAGGACACCCTGATGGCCAGGTGGGCGGGGAGAAGCAGCCGGTCTTCCCTGCAGGTGGA
CTGGCATGAGGAGGAGTGGGAGAAAGTGTGGTGAATGTGGACAAGAGCCTGGAGTGCATCATTACGCGG
GTGGACAAGCTGCTGCAGAAGGAGCGTCTGCATGGGGAGGGCTGCGAGGATGCTTTCCCTGTTGAGCA
CCTGCTCCAGCAAGAAAGGTGAGTGGAGCGAGGCCCTTACCCTCTGCTGACCACCCTCACAGACTGTGT
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GCCTCGTACCTCAGCCTGCAGTATCGCCGTGACGTCGTCTTCTGCCAAACCCTGACAGCCCTCATCTGTG
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TGCCGGTGCATCACAGAAACCGGATGGCTTTAACGTGCGGATCCCTCTGCCAGGCCACTGTTTGACTC
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TCAGACCTGCCTCCAGAGCTGCTGCGGTTCTGGGACAGAATGCCATGCACGCAAGAATAAGAATGTG
GACATCCTCTGGCAAGCTGCTGAGGTCTGTGCGCCCTTAAACGGGTCCGATTACCAGCTGCAAGAGTG
CCAAGGACCGCACAGCCATGTCGGTGCACCTGGAGCAGTGTCTGATCCTGCAGCAGGACGCGCATGGC
CCCGCAGGTCTTACACAAGCCCTGGAGTGCATGCGCAGCATTGGAACACGGGAGGTAGTACCCAGAAG
AACTTGAGCGGCCTGGTCCCATCCGAGACTTAAGGCTAGACCCAGCCTTCTCTGTTCCATTCTTTAT
TAGCTCTAAGCCCAATCTACTGATTGTGTGGCTTTCTGAGCATAGCGTACCTGGTGACCAAATTGCG
TTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230861 representing NM_001290798
 Red=Cloning site Green=Tags(s)

MCVCFACRVCELEELGELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYKGPSFKASSLKADKKLEFVP
 TNLHIQRMRVQDDGGSDQNYDVVTIGAPAAHCQGFKSGGLRKKLHKFEEAKKHSFEECCTSSSGQSIYI
 PQDITRAKEIIAQINTLKTQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCDCKLLANSIHGL
 NAARPDYIASKASPTSTEEEQVMLRNDQDTLMARWAGRSSRSLQVDWHEEEWEKAVLNVDKSLECIQR
 VDKLLQKERLHGEGCEDAFPCSSTCSSKGEWSEALYPLLTTLDVCAMMSDKAKAAMVFLMQDSAPTI
 ASYLSLQYRRDVVFCQTLTALICGFIKLRNCLHDGGFLRQLTYTIGLLAQFESLLSTYGEELAMLEDMSL
 GIMDLRNVTFKVTQATSNASNDMLPVITGNRDGFNVRIPLPGPLFDSLPREIQSGMLLRVQPVLFNVGIN
 EQQTLAERFGDTSLQEVINVESLVRNSYFEQFKEVLPEDCLPRRSQTCLPELLRFLGQNVHARKNKNV
 DILWQAAEVCRRNLNGVRFTSCKSAKDRAMSVTLEQCLILQHEHGMAPQVFTQALECMRSIGTREVVTQK
 NLSGLVPIRDRLRDLPSLLCSIPLLALSPNLLIVWLFLSIAYLVTKLRCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

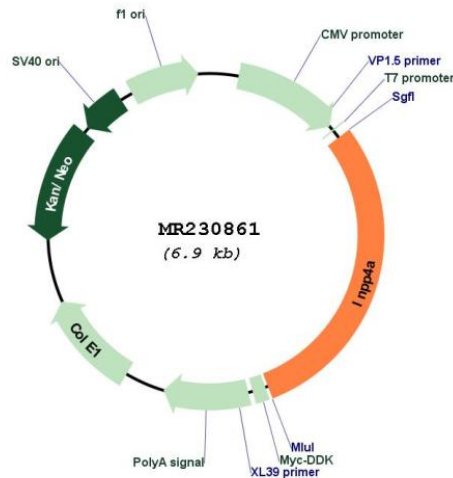
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290798

ORF Size: 2037 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_001290798.1](#), [NP_001277727.1](#)

RefSeq Size: 2971 bp

RefSeq ORF:	2040 bp
Locus ID:	269180
UniProt ID:	<u>Q9EPW0</u>
Cytogenetics:	1 15.46 cM
MW:	77 kDa
Gene Summary:	Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 1,4-bisphosphate. Involved in the regulation of megakaryocyte and fibroblast proliferation. Regulates cell growth downstream of transcription factor GATA-1.[UniProtKB/Swiss-Prot Function]