

Product datasheet for **RR207509**

Inpp4a (NM_031002) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4a (NM_031002) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207509 representing NM_031002
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGCAAGAGAGCACAGCCCTCGCCATGGTGCCAGGCGCCGTCGCGATGCAGCGGGCTTCCACCATTG
 ACGTGACAGCCGACATGGTGGGCTCTCTCTGGCAGGAAACATCCAAGACCCAGATGAGCCATTTTAGA
 GTTCAGCTTAGCTTGCAGTGAGCTTCCACTCCATCGCTAGATCGAAAACCAAATAGTTTTGTGGCTGTG
 AGTGTCACCACCCTCCACAGGCATTCTGGACGAAGCAGCGCAGACGGAGATCATCGAGGGAACCAACA
 ACCCTATCTTTCTGAGCAGCATTGCCTTCTTCAAGACTCTCTCATCAATCAGATGACCCAGATCAAGCT
 GTCAGTGTACGACGTCAAAGACAGATCTCAGGGAACAATGTAAGTGTGGCTCTGGAACATTCTGGTGC
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 GTAACATAACTGTGATCGGCTGGCAGATGGAGGAGAAGTCAGACCAGCAGCCCCCTGTACCCGGTCTCT
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 AAATATGCTTCTTTGCGAAAAGACAGCTTACTGAAAGCGGTGTTGGTGGTGCCATCTGCCGCATGTACC
 GCTTCCCAACCACCGATGGCAACCACCTACGGATCCTGGAGCAGATGGCAGAGAGCGTCTCTCGTGCA
 CGTGCCTCGGCAGTTTGTGAAGCTCCTGCTGGAAGAAGATGCAGCCAGAGTCTGTGAGTTGGAAGAGTTG
 GGGGAGCTGTCCCTTGTGGGAGAGCCTCCGGCGCCAGATTGTCACCCAGTATCAGACTATTATCCTCA
 CCTACCAGGAGAACCTGACTGACCTCCATCAGTACAAAGTCTTCTGTTAAAGCAAGCAGCTTGAAAGC
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 GTCTTCGAAAAAAGCTGCACAAGTTTTGAAGAGGCCAAGAAGCACAGTTTTGAGGAGTGTGTACATCTTC
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 GTTGGCCAACTCCATCCATGGGCTGAATGCAGCACGGCTGACTACATCGCTTCAAGGCCTCCCCTACC
 TCGACTGAGGAGGAGCAGGTGATGCTTCGGAATGACCAGGACACCCTCATGGCCAGGTGGCAGGGAGGA
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 GAGGATGTTTTCCCTGTTCAAGCACCTGTTCCAGCAAGAAAGATTGCAGCCCCCTCTGAAGAGTCTCT
 GTCCAGGTGAGTGGAGCGAGGCCCTTACCTCTGCTGACCACCCTCACAGACTGTGTGGCCATGATGAG
 CGACAAGGCCAAGGCAGCCATGGTCTTCTGCTCATGCAGACAGCTGCCCCACAATCGCCTTTACCTC
 AGCCTGCAGTATCGCCGTGACGTCGTCTTCTGCCAAAACCTGACCGCCCTCATCTGTGGCTTTATCATCA
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 TGAGAGCTGCTGAGCACCTATGGAGAGGAGTTGGCCATGTTGGAGGACATGAGCCTTGGGATCATGGAC
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 TCCAGAGCTGCTGCGTTTTCTAGGACAGAATGTCCATGCACGCAAGAATAAGAATGTGGACATCCTCTGG
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 ACGGAAAAGTTGAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207509 representing NM_031002
 Red=Cloning site Green=Tags(s)

MTAREHSPRHGARARAMQRASTIDVTADMVGLSLAGNIQDPDEPILEFSLACSELHTPSLDRKPNFSFVAV
 SVTTPPQAFWTKHAQTEIEGTNNPIFLSSIAFFQDSLINQMTQIKLSVYDVVKDRSQGTMYLKSGGTFV
 KDLLQDRHRLHLTLRSAESDRVGNITVIGWQMEEKSDQQPPVTRSLDTVNGRMVLPVDESALTEALGIRS
 KYASLRKDSLLKAVFVGGAIICRMRFPTTDGNHLRILEQMAESVLSLHVPRQFVKLLLEEDAARVCELEEL
 GELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYKGPSFKASSLKADKKLEFVPTNLHIQRMVQDDGG
 SDQNYDVVTIGAPAAHCQGFKSGGLRKKLHKFEEAKKHSFEECCTSTCQSIYIPQDVVRAKEIIAQIN
 TLKTQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCDCKLLANSIHGLNAARPDYIASKASPT
 STEEEQVMLRNDQDTLMARWAGRSSRSLQVDWHEEWEKVVNLVNDKSLCIIQRVDKLLQKERLHGEGG
 EDVFPCCSTCSSKKDCSPPEESCPGEWSEALYPLLTTLDVCAMMSDKAKAAMVFLMQTAAPTIASYL
 SLQYRRDVFVFCQTLTALICGFIKLRNCLHDGGFLRQLYTIIGLLAQFESLLSTYGEELAMLEDMSLGIMD
 LRNVTFKVTQATSNASSDMLPVITGNRDGFNVRIPPLPGPLFDSLPREIQSGMLLRVQPVLFNVGINEQQT
 LAERFGDTSLQEVINVELVRLNSYFEQFKEVLPEDCLPRSRSTCLPELLRFLGQNVHARKNKNVDILW
 QAAEVCRRLNGVRFSTCSKSAKDRTAMSVTLEQCLILQHEHGMAPQVFTQALECMRSEGCRRENTMKNVGS
 RKYAFNSLQLKAFPKHYRPEPTYGKVET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

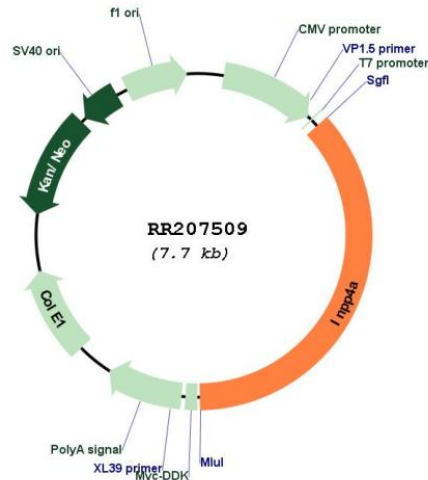
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031002

ORF Size: 2817 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_031002.3](#), [NP_112264.3](#)

RefSeq Size: 5582 bp

RefSeq ORF: 2820 bp

Locus ID: 80849

UniProt ID: [Q62784](#)

Cytogenetics: 9q21

MW: 105.6 kDa

Gene Summary: enzyme that catalyzes the hydrolysis of the 4-position phosphate of inositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate, and phosphatidylinositol 3,4-bisphosphate [RGD, Feb 2006]