

Product datasheet for **MR209731**

Inpp5e (NM_033134) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5e (NM_033134) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp5e
Synonyms:	72kDa; 1200002L24Rik; mKIAA0123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209731 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGCCATCCAAGTCAGCTTGCCCTGCGTCACACTGAGGCACCTGGGCAGCTAGAAGGCAGAATGCTCCAGG
GACAGCCTCCGAACACGGAAAAGAAGCTCATCCCAACACCAGGCTTCTTACCAGCCTCTGACTCTCAGGG
TTCAGAGACAAAACCCATGCCTCCTTTACGATTCCAGCAAAAACAAGCAACCAGAACCCACAACTAAG
GCAATCTCATCACCCACAGCCACCCATTAGACCCAAGTTGGAGCGAACCTGTCCCTCGATGACAAGG
GCTGGAGAAGGAGGCGTTCCGGGGTAGTCAGGAGGATCTGACTGTCCAGAATGGGGCCAGTCCCTGCAG
GGGCTCCTTGCAAGACTCAGTAGCCAGTCCCCTGCCTACAGCCGTCCCCTGCCCTGCCTCAGCACATCC
TTGAGGAGATACCTAAGTCCCGAAGGGCCACAGGCAGTGAGGGAGGGAGCCCATCCTTGTGGAGTGACT
GTCTTTCTGGAATGATCAGCACCTCCTTGACCTCCTGCACAGAGATGCTGCCTCAGGTGGGCCCCCTC
CAGGTTGGCAAGTTTGCATGCCTCACACACACCACCAGCTATGGACCTCAGCATAGCCTCCAGCTCCCTG
AGAACAGCAAACAAGGTTGACCCCGAGCACACGGACTACAAGCTCCGCATGCAGACCAGACTGGTACAGG
CCCACAGCAACCTGGGCCCTAGCAGACCCCGGAGCCCCTTGCTGGTGACGATCACTCCATTCACTCAGC
CAGATCTTTCAGCCTTCTGGCCCCATCCGCACCAAGGACATCAGAAGCAGGAGCTATCTGGAGGGAAGT
CTTCTGGCCAGTGGGGCCCTGCTAGGAGCAGAAGAGCTGGCCAGGTACTTCCAGACCGAAAACATGGCTC
TCTTCTGGTACCTGGAACATGCAGGGCCAGAAGGAGCTCCAGCGAGCCTGGATGAGTTTCTGTCTCC
CACCGAGGCTGACTACACTCAGGACCTGTATGTATTGGAATTCAGGAGGGCTGCTCTGACAGGCGGGAG
TGGGAGACACGCCTGCAGGAGACACTGGGCCCTCAGTATGTAAGTGTCTGTCATCAGCAGCACATGGGGTCC
TGTACATGTCCCTGTTTATCCGTAGGGACCTCATCTGGTTCTGCTCAGAGGTCGAGTACTCCACAGTAAC
TACACGCATCGTGTCTCAGATCAAGACCAAGGGGCCCTGGGCGTCAGTTACCTTTTTTGGCACCTCC
TTCTCTTCATCACATCTCACTTCACTCTGGAGATGGGAAGGTAGCAGAGCGGCTACTGGACTACAGCA
GAACCATCAAGCCCTAGCCCTGCCCGGAATGTGCCAGACACAAATCCCTACCGCTCTAGTGCAGGGGA
TGTCACTACCCGTTTGTAGAGTCTTCTGGTTTGGGACTTCAACTTCCGCCTGAGTGGTGGACGAGTG
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CCCGGAGATGAAGAAAGGTCCATCTTACGGGCTTTGAGGAGGCAGAGATTCACTTTCTTCCATCCTA
CAAGTTTGACATTGGGAAGGACACCTACGACAGCACCTCAAGCAAAGGACACCCTCTACACAGACCGA
GTCCTATACAAAAGCCGTACAAGGGTGCATCTGTCCATGAAGTATTCCTTGTCTGGGATCAAGA
CTTCAGACCACCGTCTGTGTATGGCTTGTCCAGGTGAAAGTGAGGCCAGGACGAGACAACATCCATT
AGCTGCCGGCAAGTTTGACCGAGAATTGTACTGTAGGAATTAAGGGCGGATTCAAAGGAGATTTCAG
AGACAGGAAGCACTGAAGAGCCAGAGCTCCAGTGCAGTTTGCACCGTGTCCACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

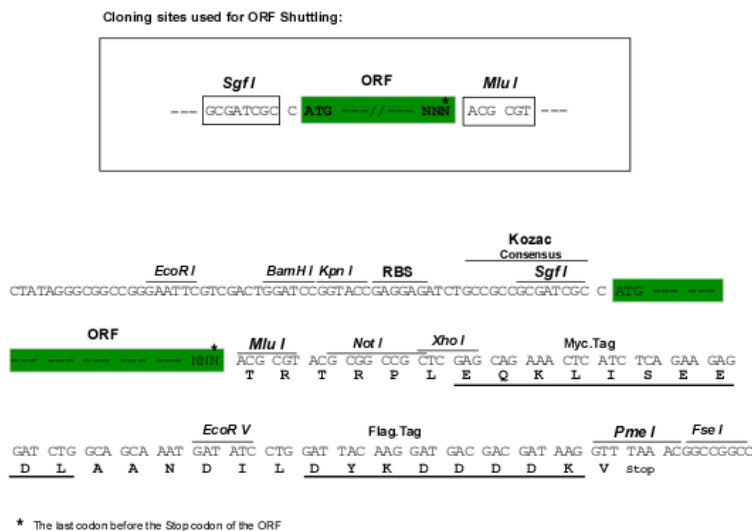
Protein Sequence: >MR209731 protein sequence
Red=Cloning site Green=Tags(s)

MPSKSACL RHTEAPGQLEGRMLQGQPPNTEKKLIPTPGFLPASDSQGSETNPMPPFSIPAKTSNQNPQTK
 ANLITPQPPIRPKLERTLSLDDKGWRFRFRGSDQLTVQNGASPCRGSLQDSVAQSPAYSRLPCLSTS
 LQEIPKSRRTGSEGGSPSLWSDCLSGMISTSLDLLHRDAASGGPPSRLASLHASHTPPAMDLSIASSL
 RTANKVDPEHTDYKLRMQTRLVRAHSNLGSPRSPRSLAGDDHSIHSARFSLAPIRT KD IRSRSYLEGS
 LLASGALLGAEELARYFPDRNMALFVATWNMQGKELPASLDEFLLPTEADYTQDLVYVIGIQEGCSDRRE
 WETRLQETLGPQYVLLSSAAHGVL YMSLFIRRDLIWFCSEVEYSTVTTTRIVSQIKTKGALGVSTFFGTS
 FLFITSHFTSGDGKVAERLLDYSRTIQALALPRNVPDTPYRSSAGDVTRFDEVFDFNFRLSGGRV
 AVEAFLKQKPEVDV LALLQHDQL TREMKKGSIFRGFEEAEIHFLPSYKFDIGKDYDSTSKQRTPSYTD
 R VLYKSRHKGDIKPMKYSSCPGIKTS DHRPVYGLFQVKVRPGRDNIPLAAGKFDRELYLIGIKRISKEIQ
 RQEALKSQSSSAVCTVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033134

ORF Size: 1944 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_033134.3](#)

RefSeq Size: 4186 bp

RefSeq ORF: 1944 bp

Locus ID: 64436

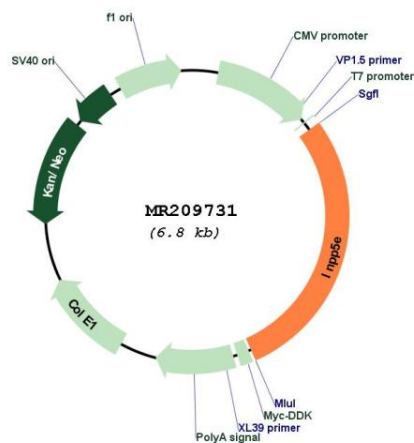
UniProt ID: [Q9J111](#)

Cytogenetics: 2 A3

MW: 71.9 kDa

Gene Summary: Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Specific for lipid substrates, inactive towards water soluble inositol phosphates. Specific for lipid substrates, inactive towards water soluble inositol phosphates (By similarity) (PubMed:10806194). Plays an essential role in the primary cilium by controlling ciliary growth and phosphoinositide 3-kinase (PI3K) signaling and stability (PubMed:19668215). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209731