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Product datasheet for MC228447

Inpp5e (NM_001290437) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5e (NM_001290437) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp5e
Synonyms:	72kDa; 1200002L24Rik; mKIAA0123
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC228447 representing NM_001290437
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCATCCAAGTCAGCTTGCCTGCGTCACACTGAGGCACCTGGGCAGCTAGAAGGCAGAATGCTCCAGG
GACAGCCTCCGAACACGGAAAAGAAGCTCATCCCAACACCAGGCTTCTTACCAGCCTCTGACTCTCAGGG
TTCAGAGACAAACCCCATGCCTCCTTTCAGCATTCCAGCAAAAACAAGCAACCAGAACCCACAAACTAAG
GCAAATCTCATCACCCCACAGCCACCCATTAGACCCAAGTTGGAGCGAACCCTGTCCCTCGATGACAAGG
GCTGGAGAAGGAGGCGTTTCCGGGGTAGTCAGGAGGATCTGACTGTCCAGAATGGGGCCAGTCCCTGCAG
GGGCTCCTTGCAAGACTCAGTAGCCCAGTCCCCTGCCTACAGCCGTCCCCTGCCCTGCCTCAGCACATCC
TTGCAGGAGATACCTAAGTCCCGAAGGGCCACAGGCAGTGAGGGAGGGAGCCCATCCTTGTGGAGTGACT
GTCTTTCTGGAATGATCAGCACCTCCTTGGACCTCCTGCACAGAGATGCTGCCTCAGGTGGGCCCCCCTC
CAGGTTGGCAAGTTTGCATGCCTCACACACACCACCAGCTATGGACCTCAGCATAGCCTCCAGCTCCCTG
AGAACAGCAAACAAGGTTGACCCCGAGCACACGGACTACAAGCTCCGCATGCAGACCAGACTGGTCAGGG
CCCACAGCAACCTGGGCCCTAGCAGACCCCGGAGCCCCTTGGCTGGTGACGATCACTCCATTCACTCAGC
CAGATCTTTCAGCCTTCTGGCCCCCATCCGCACCAAGGACATCAGAAGCAGGAGCTATCTGGAGGGAAGT
CTTCTGGCCAGTGGGGCCCTGCTAGGAGCAGAAGAGCTGGCCAGGTACTTCCCAGACCGAAACATGGCTC
TCTTCGTGGCTACCTGGAACATGCAGGGCCAGAAGGAGCTCCCAGCGAGCCTGGATGAGTTTCTGCTCCC
CACCGAGGCTGACTACACTCAGGACCTGTATGTCATTGGAATTCAGGAGGGCTGCTCTGACAGGCGGGAG
TGGGAGACACGCCTGCAGGAGACACTGGGCCCTCAGTATGTACTGCTGTCATCAGCAGCACATGGGGTCC
TGTACATGTCCCTGTTTATCCGTAGGGACCTCATCTGGTTCTGCTCAGAGGTCGAGTACTCCACAGTAAC
TACACGCATCGTGTCTCAGATCAAGACCAAGGGGGCCCTGGGCGTCAGCTTCACCTTTTTTGGCACCTCC
TTCCTCTTCATCACATCTCACTTCACCTCTGGAGATGGGAAGGTAGCAGAGCGGCTACTGGACTACAGCA
GAACCATCCAAGCCCTAGCCCTGCCCCGGAATGTGCCAGACACAAATCCCTACCGCTCTAGTGCAGGGGA
TGTCACTACCCGGTTTGATGAGGTCTTCTGGTTTGGGGACTTCAACTTCCGCCTGAGTGGTGGACGAGTG
GCTGTGGAGGCCTTCCTGAAGCAGAAACCTGAGGTGGATGTGCTGGCTCTCCTCCAACACGACCAGCTCA
CCCGGGAGATGAAGAAAGGGTCCATCTTCAGGGGCTTTGAGGAGGCAGAGATTCACTTTCTTCCATCCTA
CAAGTTTGACATTGGGAAGGACACCTACGACAGCACCTCCAAGCAAAGGACACCCTCCTACACAGACCGA
GTCCTATACAAAAGCCGTCACAAGGGTGACATCTGTCCCATGAAGTATTCCTCTTGTCCTGGGATCAAGA
CTTCAGACCACCGTCCTGTGTATGGCTTGTTCCAGGTGAAAGTGAGGCCAGGACGAGACAAGAATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290437

Insert Size: 1818 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001290437.1, NP_001277366.1
RefSeq Size:	3855 bp
RefSeq ORF:	1818 bp
Locus ID:	64436
UniProt ID:	Q9JII1
Cytogenetics:	2 A3
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] Transcript Variant: This variant (2) differs in the 5' UTR, and uses an alternate splice site that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct and shorter C-terminus, compared to isoform a.