

## Product datasheet for **MC228221**

### Ippk (NM\_001276399) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Ippk (NM_001276399) Mouse Untagged Clone |
| Tag:               | Tag Free                                 |
| Symbol:            | Ippk                                     |
| Synonyms:          | 1810043M15Rik; InsP6                     |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**Fully Sequenced ORF:** >MC228221 representing NM\_001276399  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCTGTGCGTGCCGCTGCGCTCACACCGTGCAGCCTCCCCGGGATGCTCGTCTTACTGTCAGGCA  
 ACGGTGGGCCAGAGGCTGAGCCTGGACCAGGGCCTGGGCAGCACAGGGGAAAGTTCCAGAGTGCTGTCA  
 GCCCACCGAGTGGAGTTCAGCCTCGAGAAACCACAGAGCTGGTGTCTGCCTTGCTGCTGCGCTGTCAGG  
 AACGGGGCGCTGCCACAGCGCTGTGTAGTTCTGCGTTTTCTGAAGTTTCTCAAATAAGAAGAAGACCT  
 CAGAAGAGATACTTCAGCATCTGCAGAACATAGTAGACTTTGGCAAAAATGTCATGAAAGACTTTTTGGG  
 AGAGAATATGTTCAATTGTTGGGAAGTTGTTCACTGCCTTTAGAGTTTGTGAAACAACCTGTTTTAAAG  
 ATACAGTGTGAAAGACCAGAGTCCCGTTGTGACAAGGACCTGGACACATTCACTGGTTATGCTATGTGCC  
 TTCCCAATTTAACAGACTTCAGACCTTCCACTTTCAGAGCACCAGGCGGATTCTGTGTGTAGAGATTAA  
 GCCAAAATGTGGGTTTATTCCTTTCTCAAATGATTTACCCACGAGATGAAGCACAAGGTGTGCCGATAC  
 TGCATGCCACAGCACCTCAAGGTAGCAACTGGAAGTGAAGAAAATCAGTAAATACTGTCCCCTCGACC  
 TCTACTCAGGAAAATAAGCAGCGCATGCACCTTTCGCTCAGAAGTCTGCTGCAGGAGACACAGAATAATCT  
 TAGGATATTTAAGAAATGGAGAGCTGATTTATGGTTGTGGTGTGATGCCCGGAGCCCTGTGGCTGACTTGAAG  
 GAGCTTGACACACCACCTGAAGCCCTTCTTCCCTTCCAACGGCTTGGCCAGTGGGCTCACTGCACGA  
 AGGCTGTGATCCGTGAGCTGGTGCATGTTATCACCAGGGTGTGCTGAGCAGCTCAGAAAAAGCCCGAGC  
 TGGTGCCTGAGGCTTGGGCTCCAGGGCCACGAGTCTGTGAAGCCAGTCTTTCAGCAGGAGCCTACAC  
 AACCAAGGAAAAAACACCTCAGAGCACTCGGGTTACCGAAGGGTGTCTTCTGTACAAAACCCCTCAGG  
 TGCAGATGTTGGACCAGCTGGACATCGAAGGCCTTACCCTCTGTACAAACGGGTTGAGCAATACCTGGA  
 GGAGTTTCTGAGGAGAGGAAAACATTACAGATAGATGGGCTTATGATGAAGTATTTTACCAGAAACTG  
 CTTGATCTGTCCACTGAGGATGATGGGACAGTGGCCTTTCATTAACAAAGGTGCAGCAATACAGAGTAG  
 CCATGACTGCCAAGGACTGTTCCATCATGATCGCACTTTCCTTGTCTACAGGGCACCAGCTCTGACCA  
 GAGGCCTGTTATTCCTTCGTCAAGATCCCGGCTGGCCTTCTGTGTCTGTATTGGACCTCGACCTCAAG  
 CCCTATGAGAGCATTCTCATCAGTATAAACTAGACAGCAAGATAGTCAACTATTACTCAAAGACTGTGC  
 ATGCCAAAGATGACACTGTGAGGTCGACTCGGTTCAAGGAACATGAAGATTGCACATTAGTTCTCCATAA  
 GGCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001276399
- Insert Size:** 1617 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).

|                               |  |
|-------------------------------|--|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u>NM_001276399.1, NP_001263328.1</u>  |
| <b>RefSeq Size:</b>           | 3015 bp  |
| <b>RefSeq ORF:</b>            | 1617 bp  |
| <b>Locus ID:</b>              | 75678  |
| <b>Cytogenetics:</b>          | 13 A5  |
| <b>Gene Summary:</b>          | <p>Phosphorylates Ins(1,3,4,5,6)P5 at position 2 to form Ins(1,2,3,4,5,6)P6 (InsP6 or phytate). InsP6 is involved in many processes such as mRNA export, non-homologous end-joining, endocytosis, ion channel regulation. It also protects cells from TNF-alpha-induced apoptosis. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' exon and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (b) is longer and has a distinct N-terminus, compared to isoform a.</p> |