

## Product datasheet for **MC228650**

### **Inpp4a (NM\_001290798) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Inpp4a (NM_001290798) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC228650 representing NM\_001290798  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGTGTGTGTTTTGCTTGCAGGGTATGTGAGTTGGAAGAGTTGGGGAGCTGTCCCCTTGCTGGGAGA  
 GCCTCCGGCGCCAGATTGTCACCCAGTATCAGACTATCCTCACCTACCAGGAGAATCTGACTGACCT  
 CCATCAGTACAAAGGTCCTTCTTTAAAGCAAGCAGTTTGAAGCAGATAAAAAAGTTAGAATTTGTTCCT  
 ACAAACCTGCACATACAACGGATGCGAGTTCAAGATGATGGAGGCTCAGATCAGAACTACGATGTCGTCA  
 CTATTGGAGCCCCAGCAGCACACTGCCAAGGTTTTAAGTCAGGAGGTCTTCGAAAAAGCTGCACAAGTT  
 TGAAGAGGCCAAGAAACACAGTTTTGAGGAGTGTGTACATCTTCTAGTGGCCAGTCCATCATCTACATA  
 CCACAGGACATCACCCGAGCCAAGGAGATCATTGCCAGATCAACACCCTAAAAACCCAGGTGAGTACT  
 ACGCGGAACGGCTCTCAAGGGCTGCGAAGGACAGGTGAGTACTGGCCTTGAGAGGACTCTGCCATCTT  
 GGCAGACAAGACTCGGCAGTTGGTGACTGTCTGTGACTGTAAGCTGCTGGCCAACTCCATCCATGGGCTG  
 AATGCAGCTCGGCCGACTACATCGCTTCCAAGGCCTCCCTACCTCGACTGAGGAGGAGCAGGTGATGC  
 TTCGGAATGACCAGGACACCCTGATGGCCAGGTGGGCGGGGAGAAGCAGCCGGTCTTCCCTGCAGGTGGA  
 CTGGCATGAGGAGGAGTGGGAGAAAGTGTGGTGAATGTGGACAAGAGCCTGGAGTGCATCATTACGCGG  
 GTGGACAAGCTGCTGCAGAAGGAGCGTCTGCATGGGGAGGGCTGCGAGGATGCTTTCCCTGTTTCGAGCA  
 CCTGCTCCAGCAAGAAAGGTGAGTGGAGCGAGGCCCTTACCCTCTGCTGACCACCCTCAGAGCTGTGT  
 GGCCATGATGAGCGACAAGGCCAAGGCAGCCATGGTCTTCTGCTCATGCAGGACAGTCCCCCACCATT  
 GCCTCGTACCTCAGCCTGCAGTATCGCCGTGACGTGCTTCTGCCAAACCCTGACAGCCCTCATCTGTG  
 GCTTTATCATCAAGCTGAGGAAGTGCCTGCACGACGGTGGCTTCTGCGGCAGCTCTACACCATCGGCCT  
 TCTGGCCCAAGTTTGAGAGCCTGCTGAGCACCTACGGAGAGGAGTTGGCCATGTTGGAGGACATGAGCCTT  
 GGAATCATGGACCTGAGGAATGTGACCTTTAAAGTCACTCAGGCCACTTCGAATGCATCAAATGACATGC  
 TGCCGGTCATCACAGGAAACCGGGATGGCTTTAACGTGCGGATCCCTCTGCCAGGCCCACTGTTTGACTC  
 CCTCCCCAGAGAGATCCAGAGTGGCATGCTGCTGCGGGTGCAGCCTGTCTCTTCAACGTGGGCATCAAT  
 GAGCAACAGACTGGCTGAGAGGTTTGGAGATACGTCCTTACAAGAAGTTATCAATGTGGAGAGCTTGG  
 TGCGGTTAAATTCCTACTTTGAGCAGTTTAAGGAGTTTTGCGGAGGAGTGTCTACCTCGATCTCGGAG  
 TCAGACCTGCCTCCAGAGCTGCTGCGGTTCTGGGACAGAATGTCCATGCACGCAAGAATAAGAATGTG  
 GACATCCTCTGGCAAGCTGCTGAGGTCTGTGCGCCGCTTAACGGGGTCCGATTACCAGCTGCAAGAGTG  
 CCAAGGACCGCACAGCCATGTGCGGTGACCTGGAGCAGTGTCTGATCCTGCAGCAGGACGCGCATGGC  
 CCCGCAGGTCTTACACAAGCCCTGGAGTGCATGCGCAGCATTGGAACACGGGAGGTAGTCACCCAGAAG  
 AACTTGAGCGGCCTGGTCCCATCCGAGACTTAAGGCTAGACCCAGCCTTCTCTGTTCCATTCTTTAT  
 TAGCTCTAAGCCCCAATCTACTGATTGTGTGGCTTTTCTGAGCATAGCGTACCTGGTGACCAATTGCG  
 TTGCAAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001290798  
**Insert Size:** 2040 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).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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_001290798.1, NP_001277727.1</u>
<b>RefSeq Size:</b>	2971 bp
<b>RefSeq ORF:</b>	2040 bp
<b>Locus ID:</b>	269180
<b>UniProt ID:</b>	<u>Q9EPW0</u>
<b>Cytogenetics:</b>	1 15.46 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) has multiple differences in the coding region but maintains the reading frame, compared to variant 3. These differences include an alternate translation initiation start codon and an alternate 3' terminal exon. The encoded protein (isoform 4) is shorter and has a distinct C-terminus compared to isoform 3.</p>