

## Product datasheet for **MR222555**

### Inpp4a (NM\_030266) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4a (NM_030266) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp4a
Synonyms:	107kDa; 9630012D15; D130048C09Rik; R74740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR222555 representing NM\_030266  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACAGCAAGAGAGCACAGCCCTCGCCATGGTGCCAGGGCCCGTGCATGCAGCGGGCTTCCACCATTG  
 ACGTGGCAGCCGACATGGTTGGCCTCTCTTTGGCAGGAAATATCCAAGATCCAGATGAGCCATTTTAGA  
 ATTCAGCTTAGCTTGCAGTGAGCTGCACACTCCATCGCTAGATCGAAAACCAAATAGTTTTGTGGCTGTG  
 AGTGTCCACCACCCTCCGCAGGGTCTGGACGAAGCAGCACAGACGGAGATCATCGAGGGAACCAACA  
 ACCCTATCTTTCTAAGCAGCATTGCCTTCTTCAAGACTCCCTTATCAATCAGATGACCCAGATCAAGCT  
 GTCTGTGTATGATGTCAAAGACAGATCTCAGGGAACAATGTACTTACTGGGCTCTGGAACATTCTGGTC  
 AAAGATCTGCTCCAGGACAGGCATCACAGATTGCATCTGACACTGAGGTCTGCAGAGAGTGACCGTGTCC  
 GCAACATAACTGTGATCGGCTGGCAGATGGAGGAGAAGTCCGACCAGCAGCCCCCTGTACCCGGTCTCT  
 GGACACTGTCAATGGAAGGATGGTCTGCCCGTTGATGAAAGCTTACTGAGGCCTTGGGAATCCGATCC  
 AAATATGCTTCTTTGCGAAAAGACAGCTTACTGAAAGCAGTGTTGGTGGTGCCATCTGCCGCATGTACC  
 GCTTCCAACTACTGATGGTAACCACTACGGATCCTGGAGCAGATGGCAGAGAGCGTCTCTCCCTGCA  
 CGTGCCTCGGCAGTTTGTGAAGCTACTGCTGGAAGAAGATGCAGCCAGGGTATGTGAGTTGGAAGAGTTG  
 GGGGAGCTGTCCCTTGTGGGAGAGCCTCCGGCGCCAGATTGTCACCCAGTATCAGACTATCATCTCA  
 CCTACCAGGAGAACTGACTGACCTCCATCAGTACAAAGTCTCTCTTTAAAGCAAGCAGTTTGAAGC  
 AGATAAAAAGTTAGAATTTGTTCCACAAAACCTGCACATACAACGGATGCGAGTTCAAGATGATGGAGGC  
 TCAGATCAGAACTACGATGTCGCTACTATTGGAGCCCCAGCAGCACACTGCCAAGTTTTAAGTCAGGAG  
 GTCTTCGAAAAAAGCTGCACAAGTTTGAAGAGGCCAAGAACAACAGTTTTGAGGAGTGTGTACATCTTC  
 TAGTGGCCAGTCCATCATCTACATACCACAGGACATCACCCGAGCCAAGGAGATCATTGCCCAGATCAAC  
 ACCCTAAAAACCCAGGTGAGTACTACGCGAAGCGGCTCTCAAGGGCTGCGAAGGACAGGTGAGTACTG  
 GCCTTGAGAGGACTCTCGCCATCTTGGCAGACAAGACTCGGCAGTTGGTACTGTCTGTACTGTAAGCT  
 GCTGGCCAACTCCATCCATGGGCTGAATGCAGCTCGGCCGACTACATCGCTTCAAGGCCTCCCTACC  
 TCGACTGAGGAGGAGCAGGTGATGCTTCGGAATGACCAGGACACCCTGATGGCCAGGTGGCGGGGAGAA  
 GCAGCCGGTCTTCCCTGCAGGTGACTGGCATGAGGAGGAGTGGGAGAAAGTGTGGCTGAATGTGGACAA  
 GAGCCTGGAGTGCATCATTACGCGGTGGACAAGCTGCTGCAGAAGGAGCGTCTGCATGGGAGGGCTGC  
 GAGGATGCTTCCCTGTTCGAGCACTGCTCCAGCAAGAAAGATTGCAGCCCCCTCTGAAGAGTCCA  
 GTCAGGTGAGTGGAGCGAGGCCCTTACCTCTGCTGACCACCTCACAGACTGTGTGGCCATGATGAG  
 CGACAAGGCCAAGGCAGCCATGGTCTTCTGCTCATGCAGGACAGTGCCCCACCATTGCCTCGTACCTC  
 AGCCTGCAGTATCGCCGTGACGTGCTTCTGCCAAAACCTGACAGCCCTCATCTGTGGCTTTATCATCA  
 AGCTGAGGAACCTGCACGACGGTGGCTTCTGCGGCAGCTCTACCCATCGGCCTTCTGGCCAGTT  
 TGAGAGCTGTGAGCACCTACGGAGAGGAGTTGGCCATGTTGGAGGACATGAGCCTTGGAAATCATGGAC  
 CTGAGGAATGTGACCTTTAAAGTCACTCAGGCCACTTCGAATGCATCAAATGACATGCTGCCGGTCA  
 CAGGAAACCGGATGGCTTTAACGTGCGGATCCCTCTGCCAGGCCACTGTTTACTCCCTCCCAAGAGA  
 GATCCAGAGTGGCATGCTGCTGCGGGTGCAGCCTGTCTTCAACGTGGCATCAATGAGCAACAGACA  
 CTGGCTGAGAGGTTTGGAGATACGTCCTTACAAGAAGTTATCAATGTGGAGAGCTTGGTGGCGTTAAATT  
 CCTACTTTGAGCAGTTTAAAGAGTTTTGCCGGAGGACTGTCTACCTCGATCTCGGAGTCAGACCTGCCT  
 TCCAGAGCTGCTGCGGTTCTGGGACAGAATGTCCATGCACGCAAGAATAAGAATGTGGACATCCTCTGG  
 CAAGCTGCTGAGGTCTGTGCGCCCTTAAACGGGTCCGATTCACCAGCTGCAAGAGTGCCAAAGGACCGCA  
 CAGCCATGTCGGTGACCTGGAGCAGTGTCTGATCCTGCAGCACGAGCACGGCATGGCCCCGAGGTCTT  
 CACACAAGCCCTGGAGTGCATGCGCAGTGGGGTTGTGCGCGAGAAAACAATGAAGAATGTTGGAAGT  
 CGCAAATATGCATTTAACTCCCTGCAGTGAAGGCCTTCCCAAGCATTACAGCCTCCAGAAGGGACTT  
 ACGGAAAAGTTGAGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222555 representing NM\_030266  
 Red=Cloning site Green=Tags(s)

MTAREHSPRHGARARAMQRASTIDVAADMVGLSLAGNIQDPDEPILEFSLACSELHTPSLDRKPNFSFVAV  
 SVTTPPQAFWTKHAQTEIEGTNNPIFLSSIAFFQDSLINQMTQIKLSVYDVVKDRSQGTMYLKSGTFVVG  
 KDLLQDRHHRLHLTLRSAESDRVGNITVIGWQMEEKSDQPPVTRSLDTVNGRMVLPVDESALTEALGIRS  
 KYASLRKDSLLKAVFVGGAIICRMRYRFPPTDGNHLRILEQMAESVLSLHVPRQFVKLLLEEDAARVCELEEL  
 GELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYKGPSFKASSLKADKKLEFVPTNLHIQRMRVQDDGG  
 SDQNYDVVTIGAPAAHCQGFKSGGLRKKLHKFEEAKKHSFEECCTSSSQSIIYIPQDITRAKEIIAQIN  
 TLTKQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCDCKLLANSIHGLNAARPDYIASKASPT  
 STEEEQVMLRNDQDTLMARWAGRSSRSLQVDWHEEWEKVLNVDKSLECIQRVDKLLQKERLHGEGC  
 EDAPFCSTCSSKKDCSPPEESSPGWESEALYPLLTTLDVCVAMMSDKAKAAMVFLMQDSAPTIASYL  
 SLQYRRDVFVFCQTLTALICGFIKLRNCLHDGGFLRQLYTIGLLAQFESLLSTYGEELAMLEDMSLGIMD  
 LRNVTFKVTQATSNASNDMLPVITGNRDGFNVRIPPLPGPLFDSLPREIQSGMLLRVQPVLFNVGINEQQT  
 LAERFGDTSLQEVINVESLVRNLSYFEQFKEVLPEDCLPRSRSTCLPELLRFLGQNVHARKNKNVDILW  
 QAAEVCRRLLNGVRFTSCKSAKDRTAMSVTLEQCLILQHEHGMAPQVFTQALECMRSEGCRRRENTMKNVGS  
 RKYAFNSLQLKAFPKHYRPPPEGTYGKVVET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1179\\_h02.zip](https://cdn.origene.com/chromatograms/ja1179_h02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



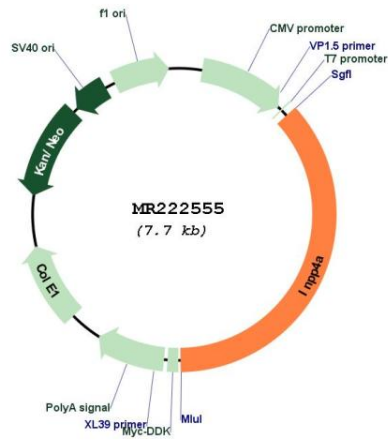
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030266

**ORF Size:** 2817 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_030266.4</a> , <a href="#">NP_084542.2</a>
<b>RefSeq Size:</b>	5689 bp
<b>RefSeq ORF:</b>	2820 bp
<b>Locus ID:</b>	269180
<b>UniProt ID:</b>	<a href="#">Q9EPW0</a>
<b>Cytogenetics:</b>	1 15.46 cM
<b>MW:</b>	106 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR222555