

Product datasheet for **MG222678**

Inpp4a (NM_172971) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4a (NM_172971) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inpp4a
Synonyms:	107kDa; 9630012D15; D130048C09Rik; R74740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222678 representing NM_172971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGTGTGTGTTTTGCTTGCAGGGTATGTGAGTTGGAAGAGTTGGGGAGCTGTCCCTTGTCTGGGAGA
 GCCTCCGGCGCCAGATTGTCACCCAGTATCAGACTATCCTCACCTACCAGGAGAATCTGACTGACCT
 CCATCAGTACAAAAGTCTTCTTTAAAGCAAGCAGTTTAAAAGCAGATAAAAAGTTAGAATTTGTCC
 ACAAACCTGCACATACAACGGATGCGAGTTCAAGATGATGGAGGCTCAGATCAGAACTACGATGTCGTCA
 CTATTGGAGCCCCAGCAGCACACTGCCAAGTTTTAAGTCAGGAGGTCTTCGAAAAAGCTGCACAAGTT
 TGAAGAGGCCAAGAAACACAGTTTTGAGGAGTGTGTACATCTTCTAGTGGCCAGTCCATCATCTACATA
 CCACAGGACATCACCCGAGCCAAGGAGATCATTGCCAGATCAACACCCTAAAAACCCAGGTCAGCTACT
 ACGCGGAACGGCTCTCAAGGGCTGCGAAGGACAGGTGAGTACTGGCCTTGAGAGGACTCTGCCATCTT
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 TTCGGAATGACCAGGACACCCTGATGGCCAGGTGGGCGGGGAGAAGCAGCCGGTCTTCCCTGCAGGTGGA
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 CCTTACAAGAAGTTATCAATGTGAAAGCTTGGTGGGTTAAATTCCTACTTTGAGCAGTTTAAAGGAGT
 TTTGCCGGAGGACTGTCTACCTCGATCTCGGAGTCAGACCTGCCTCCAGAGCTGCTGCGGTTCCCTGGGA
 CAGAATGTCCATGCACGCAAGAATAAGAATGTGGACATCCTCTGGCAAGCTGCTGAGGTCTGTCGCCGCC
 TTAACGGGGTCCGATTCACCAGCTGCAAGAGTGCCAAGGACCGCACAGCCATGTCGGTGACCCTGGAGCA
 GTGCTGATCCTGCAGCACGAGCACGGCATGGCCCCGAGGTCTTACACAAGCCCTGGAGTGCATGCGC
 AGCATTGGAACACGGGAGGTAGTCACCCAGAAGAACTTGAGCGGCCTGGTGCCCATCCGAGACTTAAGGC
 TAGACCCAGCCTTCTCTGTTCCATTCTTTATTAGCTCTAAGCCCAATCTACTGATTGTGTGGCTCTT
 TCTGAGCATAGCGTACCTGGTGACCAAATTGCGTTGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222678 representing NM_172971
 Red=Cloning site Green=Tags(s)

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MCVCFACRVCELEELGELSPCWESLRRQIVTQYQTIILTYQENLTDLHQYKGPSFKASSLKADKKLEFVP
TNLHIQRMRVQDDGGSDQNYDVVTIGAPAAHCQGFKSGGLRKKLHKFEEAKKHSFEECCTSSSGQSIYI
PQDITRAKEIIAQINTLKTQVSYAERLSRAAKDRSATGLERTLAILADKTRQLVTVCDCKLLANSIHGL
NAARPDYIASKASPTSTEEEQVMLRNDQDTLMARWAGRSSRSSLQVDWHEEEWEKVVWLNVDKSLECIQR
VDKLLQKERLHGECEDAFPCSSTCSSKKDCSPPEESSPGWSEALYPLLTTLTDVAMMSDKAKAAMV
FLLMQDSAPTIASYLSLQYRRDVVFCQTLTALICGFIKLRNCLHDGGFLRQLYTIIGLLAQFESLLSTYG
EELAMLEDMSLGIMDLRNVTFKVTQATSNASSDMLPVITGNRDGFNRIPLPGPLFDSLPREIQSGMLLR
VQPVLFNVGINEQQLAERFGDTSLQEVINVESLVRNSYFEQFKEVLPEDCLPRSRSTCLPELLRFLG
QNVHARKNKNVDILWQAAEVCRRLNGVRFTSCKSAKDRTAMSVTLEQCLILQHEHGMAPQVFTQALECMR
SIGTREVVTQKNLSGLVPIRDLRLDPSLLCSIPLLALSPNLLIVWLFLSIAYLVTKLRCK
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172971

ORF Size: 2070 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_172971.2](#), [NP_766559.2](#)

RefSeq Size: 2997 bp

RefSeq ORF: 2073 bp

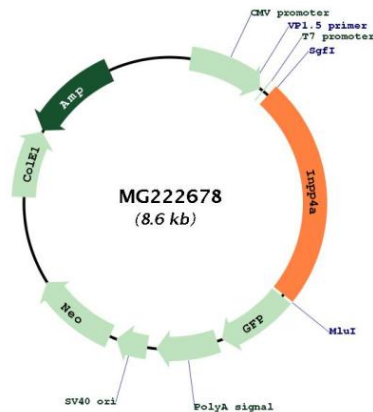
Locus ID: 269180

UniProt ID: [Q9EPW0](#)

Cytogenetics: 1 15.46 cM

Gene Summary: 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 MG222678