

## Product datasheet for **MG206904**

### **Ip6k1 (NM\_013785) Mouse Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Ip6k1 (NM_013785) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Ip6k1                                                                       |
| Synonyms:                 | 1200016D08Rik; AU022776; Ihpk1; InsP6; InsP6k1; Itpk6                       |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >MG206904 representing NM_013785<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGTGTGTTTGTCAAACCATGGAAGTGGGCGAGTATGGCAAGAACGCAAGTCGGGCCGGAGACCGAGGAG  
 TCCTCCTGGAGCCCTTCATCCATCAGGTGGGCGGGCACAGCAGCATGATGCGGTACGACGACCACACTGT  
 GTGCAAACCTCTCATCTCCCGGAACAGCGCTTCTACGAGTCACTCCCTCCGAAATGAAGGAATTCACC  
 CCAGAGTACAAAGGCGTGGTTTCTGTCTGTTTGGGGAGACAGTGATGGTTACATCAACTTGGTAGCCT  
 ATCCTTATGTGGAGAGTGAACTGTAGAGCAAGATGACACACCAGAGCGGGAGCAACCTCGGCGCAAACA  
 CTCCCGCCGGAGCCTGCATCGGTCTGGCAGTGGTAGTGACCACAAGGAGGAGAAAGCCAGCCTGTCTTT  
 GAGACCTCTGAGAGCTCCAGGAGGCAAGAGTCCAAAGGTGGAAGTGCACAGCCACTCAGATGTCCCTT  
 TCCAGATGCTAGACAGCAATAGCGGTCTGAGCTCCGAGAAGATCAGCTACAACCCCTGGAGCCTGCGCTG  
 CCACAAGCAGCAGCTGAGCCGCATGCGCTCCGAGTCCAAGGACCGAAAACCTCTACAAGTTCTCTGCTT  
 GAGAACGTGGTACACCACTTCAAGTACCCTGTGTCTGGAAGTGAAGATGGGTACCCGGCAGCATGGCG  
 ATGATGCTTCAGCTGAAAAGGCTGCCCGGCAGATGAGGAAGTGTGAGCAGAGCACGTGCGCCACGCTGGG  
 GGTCAGGGTCTGTGGCATGCAGGTGTACCAGCTGGACACAGGTCATTACCTCTGCAGGAATAAGTACTAT  
 GGCCGTGGACTCTCCATCGAGGGCTTCCGCAATGCGCTCTATCAGTACCTGCACAATGGCTTGGACCTTC  
 GACGTGACCTTTTGGAGCAATCCTGAGCAAACTGCGGGGCCTCAAAGCCGTAAGTGGAGCGGCAGGCCTC  
 CTACCGCTTCTACTCCAGCTCCCTGCTTGTCTATGATGGCAAGGAGTGCCGGTCTGAGCTACGTCTC  
 AAGCAGTGGACATGGGGCTCCCTGAGGTGCCACCACCCTGTGGCCCCAGCACCAGTCTAGCAGCACCA  
 GTCTTGAGGCTGGCCCTCTTCTCCGCCAAGGTGGATGTTGCGCATGATTGACTTTGCACACAGCACATT  
 CAAGGGCTTCCGGGATGACCCCACTGTTACGATGGGCCAGACAGAGGCTATGTGTTGGCTTGGAGAAT  
 CTTATCAGCATCATGGAGCAGATGCGGGATGAGAACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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**Protein Sequence:** >MG206904 representing NM\_013785  
 Red=Cloning site Green=Tags(s)

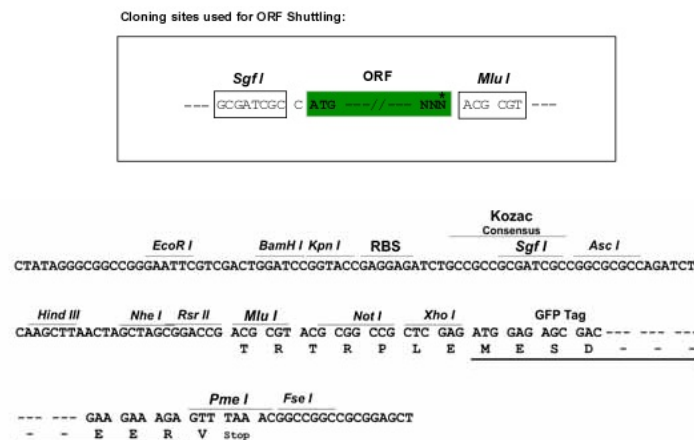
MCVCQTMEVGQYGNASRAGDRGVLLPEFIIHQVGGHSSMMRYDDHTVCKPLISREQRFYESLPPEMKEFT  
 PEYKGVSVVCFEGLSDGYINLVAYPYVESETVEQDDTPEREQPRRKHSRRSLHRSGSGSDHKEEKASLSF  
 ETSESSQEAQSPKVELHSHSDVPFQMLDSNSGLSSEKISYNPWSLRCHKQQLSRMRSESKDRKLYKFLLL  
 ENVVHHFKYPCVLDLKMGTQRHGDASAEKAARQMRKCEQSTSATLGVRVCGMQVYQLDTGHYLCRNKYY  
 GRGLSIEGFRNALYQYLHNGLDLRRDLFEPILSKLRGLKAVLERQASYRFYSSLLVIYDGKECRSELRL  
 KHVDMGLPEVPPPCGPSTSPSSTSLEAGPSSPPKVDVRMIDFAHSTFKGFRDDPTVHDGPDRGYVFGLEN  
 LISIMEQMRDENQ

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013785

**ORF Size:** 1299 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_013785.2](#), [NP\\_038813.2](#)

**RefSeq Size:** 4429 bp

**RefSeq ORF:** 1302 bp

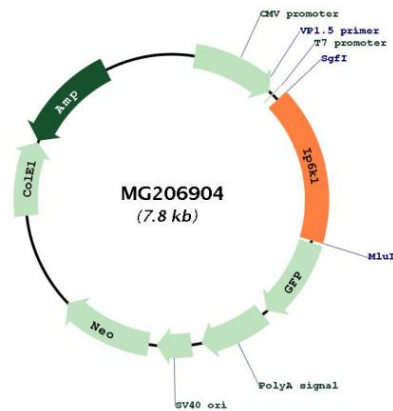
**Locus ID:** 27399

**UniProt ID:** [Q6PD10](#)

**Cytogenetics:** 9 F1

**Gene Summary:** Converts inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5). Converts 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG206904