

## Product datasheet for **MG207147**

### **Ip6k2 (NM\_029634) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ip6k2 (NM_029634) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ip6k2
Synonyms:	1500005N04Rik; AW050208; Ihpk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207147 representing NM\_029634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCAGCCTTCAGGACCATGGACGTGGAGCCCCGCACCAAGGGCATCCTGCTGGAGCCATTTGTCC  
 ACCAGGTTGGGGGCACTCATGCGTTCTCCGATTCAATGAGACAACCCTGTGCAAGCCCCTGGTTCCGAG  
 GGAGCATCAGTTCTACGAGACCCTCCAGCTGAGATGCGCAGATTCACTCCCCAGTACAAAAGCTGTCTTG  
 ATATTTGTTAGGTGTGCAGATGAGTTTGGGGCCTCTGGCAACATAGAGACTAAGGAACAGGGTGTGGTAT  
 CAGTACGCTTTGAAGAAGATGAAGACAGGAACCTGTGTTAATAGCATATCCATTAAGGGGACCATTGG  
 AACTGTGGATATAGTAGACAATTCGACTGTGAACAAAAAGTAAGCTGCTAAGATGGACAACAAAAAG  
 CATCATGCCCTAGAAACAGAAAAGAATCCCAAGGACTGGGTGCGCCAGCACCGGAAAGAGGAGAAGATGA  
 AGAGCCATAAGTTAGAAGAAGAATTTGAGTGGCTAAAGAAATCTGAAGTCTTATACTACAGTGTAGAAA  
 AAAGGAAATGTAAGTTCCAGCTTAAACACTATAACCCTTGGAGCATGAAATGCATCAACAACAGTTA  
 CAGAGAATGAAGGAGAATGCCAAGCATCGAAACAGTACAAATTCATCTTACTGGAGAACCCTGACTTCCC  
 GCTATGAGGTACCTTGTGTCTGGACCTCAAGATGGGCACACGCCAGCATGGCGATGATGCTTCGGAGGA  
 AAAAGCAGCTAACAGATCCGAAAATGTCAGCAGAGCACGCTGTCGGTCAATCGGTGTTCCGAGTGTGCGGC  
 ATGCAGGTGTACCAGGCGGGCACTGGGCAGCTCATTTTCATGAACAAGTACCATGGGCGGAAGCTTTCGG  
 TGCAGGGCTTCAAGGAGGCGCTTTCCAGTTCTTTCAATGGGCGGTACCTGCGCCGTGAGCTCCTGGG  
 CCCTGTCTCAAGAAGCTAACTGAGCTCAAGGCCGTGTTGGAGCGACAGGAATCCTACCGCTTCTATTCA  
 AGTCCCTACTGGTCATCTATGATGGCAAGGAGTGGCCAGAAGTACCCTGGACTCAGACGCTGAGGACT  
 TGGAGGACCTCTCCGAAGAGTCGGCTGATGAGCTGCGCGTGCCTATGCCTACAAGCCCATCGGTGCCAG  
 CTCAGTGGACGTGCGCATGATTGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACAGTGTGGTG  
 CATGAGGGCCAGGATGCTGGCTATATCTTTGGGCTGCAGAGCCTGATAGACATTGTCACAGAGATAAGTG  
 AGGAGAGTGGGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207147 representing NM\_029634  
 Red=Cloning site Green=Tags(s)

MSPAFRTMDVEPRTKGILLEPFVHQVGGHSCVLRFNETTLCCKPLVPREHQFYETLPAEMRRFTPQYKAVL  
 IFVRCADFEFGASGNIETKEQGVVSVRFEEDRNLCLIAIYPLKGDHGTVDIVDNSDCEPKSKLLRWTNKK  
 HHALETEKNPKDWVRQHRKEEKMKSHKLEEFELWKKSEVLYSVEKKNVSSQLKHYNPWSMKCHQQQL  
 QRMKENAKHRNQYKIFILLENLTSRYEVPVLDLKMGTROHGDDASEEKAANQIRKCCQSTSAVIGVRVCG  
 MQVYQAGTGQLIFMKNYHGRKLSVQGFKEALFQFFHNGRYLRRELLGPVLKKLTELKAVLERQESYRFYS  
 SLLLVIIYDGKEWPEVTLDSDAEDLELSEESADESAGAYAYKPIGASSVDYRMIIDFAHTTCRLYGEDSVV  
 HEGQDAGYIFGLQSLIDIVTEISEESGE

**TRTRPLE** - GFP Tag - V

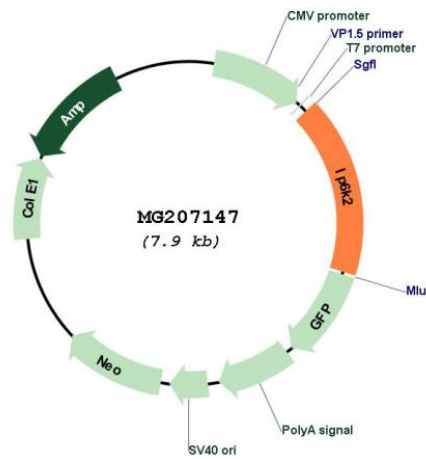
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_029634

**ORF Size:** 1344 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.

<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><a href="#">NM_029634.1</a></u> , <u><a href="#">NP_083910.1</a></u>
<b>RefSeq Size:</b>	1868 bp
<b>RefSeq ORF:</b>	1347 bp
<b>Locus ID:</b>	76500
<b>UniProt ID:</b>	<u><a href="#">Q80V72</a></u>
<b>Cytogenetics:</b>	9 F2
<b>Gene Summary:</b>	Converts inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5) (By similarity). May play a role in the regulation of Na(+)-dependent phosphate cotransport, possibly via its role in diphosphoinositol pentakisphosphate (InsP7/PP-InsP5) biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]