

## Product datasheet for **MG207832**

### **lppk (NM\_199056) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	lppk (NM_199056) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	lppk
Synonyms:	1810043M15Rik; InsP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207832 representing NM\_199056  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGAGGGGAAAATGGACGAGAATGAATGGAGTTACCATGGCGAAGGCAACAAGAGCCTTGTGGTGG  
 CCCACGCGCAGCGCTGTGTAGTTCTGCGTTTTCTGAAAGTTTCTCCAAATAAGAAGAAGACCTCAGAAGA  
 GATACTTCAGCATCTGCAGAACATAGTAGACTTTGGCAAAAATGTCATGAAAGACTTTTTGGGAGAGAAC  
 TATGTTTATTGTGGGGAAGTTGTTTTCAGCTGCCTTTAGAGTTTGTGAAACAACCTGTGTTAAAGATACAGT  
 GTGAAAGACCAGAGTCCCCTTGTGACAAGGACCTGGACACATTCAGTGGTTATGCTATGTGCCTTCCCAA  
 TTTAACAGACTTCAGACCTTCCACTTTGCAGAGCACCAGCGGATTCTGTGTGTAGAGATTAAGCCAAAA  
 TGTGGGTTTATTCCTTTCTCAAATGATGTTACCCACGAGATGAAGCACAAGGTGTGCCGATACTGCATGC  
 ACCAGCACCTCAAGGTAGCAACTGGAAAGTGAAGAAAAATCAGTAAATACTGTCCCCTCGACCTCTACTC  
 AGGAAATAAGCAGCGCATGCACTTTGCCCTCAGAAGTCTGCTGCAGGAGACACAGAATAATCTTAGGATA  
 TTTAAGAATGGAGAGCTGATTTATGTTTGTGGTATGCCCGAGCCCTGTGGCTGACTTGAAGGAGCTTG  
 CACACCACCTGAAGCCCTTCTTCTCCCTTCCAACGGCTTGCCAGTGGCCCTCACTGCACGAAGGCTGT  
 GATCCGTGAGCTGGTGCATGTTATCACCAGGTGCTGCTGAGCAGCTCAGAAAAAGCCCGAGCTGGTGCC  
 CTGAGGCTTGGGCTCCAGGGCCACGAGTCTGTGAAGCCAGTCCCTTTCAGCAGGAGCCTACACAACCAAG  
 GAAAAACACCTCAGAGCACTCGGGTTACCGAAGGGCTGTCTTCTGTACAAAACCTCCAGGTGCAGAT  
 GTTGGACCAGCTGGACATCGAAGCCCTACCTCTGTACAAACGGTTGAGCAATACCTGGAGGAGTTT  
 CCTGAGGAGAGGAAAACATTACAGATAGATGGCCTTATGATGAAGTATTTACCAGAACTGCTTGATC  
 TGTCCACTGAGGATGATGGGACAGTGGCCTTTGCATTAACAAAGGTGCAGCAATACAGATAGCCATGATC  
 TGCCAAGGACTGTTCCATCATGATCGCACTTTCCCTTGTCTACAGGGCACCCAGCTCTGACCAGAGGCTT  
 GTTATTCCTTCGTCAGATCCCAGCTGGCCTTCTGTGTCTGTATTGGACCTCGACCTCAAGCCCTATG  
 AGAGCATTCTCATCAGTATAAACTAGACAGCAAGATAGTCAACTATTACTCAAAGACTGTGCATGCCAA  
 AGATGACACTGTGAGGTCGACTCGGTTCAAGGAACATGAAGATTGCACATTAGTTCTCCATAAGGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207832 representing NM\_199056  
 Red=Cloning site Green=Tags(s)

MEEGKMDENEWSYHGEKNKSLVVAHAQRCVVLRFKFPNKKKTSEEILQHLQNI VDFGKNVMKDFLGEN  
 YVHCGEVVQLPLEFVKQLCLKIQ CERPE SRCDKLD DTFSGYAMCLPNLTRLQTFHFAEHRPILCVEIKPK  
 CGFIPFSNDVTHEMKHKVCRYCMHQHLKVATGKWKKISKYCPDLYSGNKQRMHFALRSLQETQNNLRI  
 FKNGLIYGCDARSPVADLKELAHHLKPFPPSNGLASGPHCTKAVIRELVHVI TRVLLSSEKARAGA  
 LRLGLQGPRVCEASPF SRSLHNQKNTSEHGLPKGCLLYKTLQVQMLDQLDIEGLYPLYKRVEQYLEEF  
 PEERKTLQIDGPYDEVFYQKLLDLSTEDDGTVAFALTKVQQYRVAMTAKDCSIMIALSPCLQGTSSDQRP  
 VIPSSRSLAFSVSVLDLDPYESI PHQYKLD SKIVNYYSKTVHAKDDTVRSTRFKEHEDCTLVHLKV

**TRTRPLE** - GFP Tag - V

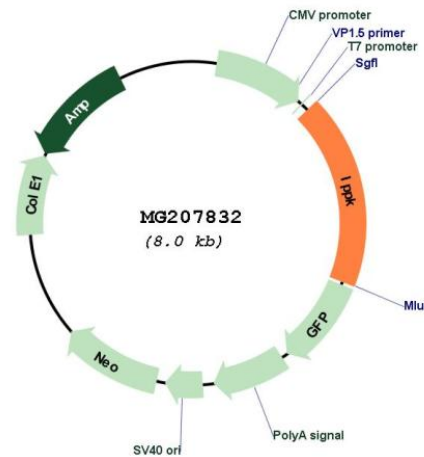
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_199056

ORF Size: 1467 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\\_199056.4](#)

**RefSeq Size:** 2776 bp

**RefSeq ORF:** 1470 bp

**Locus ID:** 75678

**UniProt ID:** [Q6P1C1](#)

**Cytogenetics:** 13 A5

**Gene Summary:** Phosphorylates Ins(1,3,4,5,6)P5 at position 2 to form Ins(1,2,3,4,5,6)P6 (InsP6 or phytate). InsP6 is involved in many processes such as mRNA export, non-homologous end-joining, endocytosis, ion channel regulation. It also protects cells from TNF-alpha-induced apoptosis. [UniProtKB/Swiss-Prot Function]