

Product datasheet for **MG206804**

Ippk (BC024630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ippk (BC024630) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ippk
Synonyms:	1810043M15Rik; InsP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206804 representing BC024630 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTTTTTGGGAGAGAACTATGTTCAATTGTGGGGAAGTTGTTTCAGCTGCCTTTAGAGTTTGGA
AACAACTCTGTTAAAGATACAGTGTGAAAGACCAGAGTCCCCTTGTGACAAGGACCTGGACACATTCAG
TGGTTATGCTATGTGCCTTCCCAATTTAACCAGACTTCAGACCTCCACTTTGCAGAGCACCAGCGGATT
CTGTGTGTAGAGATTAAGCCAAAATGTGGGTTTATTCCTTCTCAAATGATGTTACCCACGAGATGAAGC
ACAAGGTGTGCCGATACTGCATGCACCAGCACCTCAAGGTAGCAACTGGAAAGTGAAGAAAATCAGTAA
ATACTGTCCCCTCGACCTCTACTCAGGAAATAAGCAGCGCATGCACTTTGCCCTCAGAAGTCTGCTGCAG
GAGACACAGAATAATCTTAGGATATTTAAGAAATGGAGAGCTGATTTATGGTTGTGGTGATGCCCGGAGCC
CTGTGGCTGACTTGAAGGAGCTTGCACACCACCTGAAGCCCTTCTTCCCTTCCAACGGCTTGGCCAG
TGGGCCTCACTGCACGAAGGCTGTGATCCGTGAGCTGGTGATGTTATCACCAGGCTGCTGCTGAGCAGC
TCAGAAAAAGCCCGAGCTGGTGCCCTGAGGCTTGGGCTCCAGGGCCACGAGTCTGTGAAGCCAGTCCTT
TCAGCAGGAGCCTACACAACCAAGGAAAAACACCTCAGAGCACTCGGGTTACCGAAGGCTGTCTTCT
GTACAAAACCCCTCAGGTGCAGATGTTGGACCAGCTGGACATCGAAGGCCTTACCCTCTGTACAAAACGG
GTTGAGCAATACCTGGAGGAGTTTCTGAGGAGAGGAAAAACATTACAGATAGATGGCCCTTATGATGAAG
TATTTTACCAGAACTGCTTGTATCTGTCCACTGAGGATGATGGGACAGTGGCCTTTGCATTAACAAAGGT
GCAGCAATACAGAGTAGCCATGACTGCCAAGGACTGTTCCATCATGATCGCACTTCCCCTTGTCTACAG
GGCACCAGCTCTGACCAGAGGCTGTTATTCCTTCGTCAGATCCCGGCTGGCCTTCTGTGTCTGTAT
TGGACCTCGACCTCAAGCCCTATGAGAGCATTCTCATCAGTATAAACTAGACAGCAAGATAGTCAACTA
TTACTCAAAGACTGTGCATGCCAAAGATGACACTGTGAGGTCGACTCGGTTCAAGGAACATGAAGATTGC
ACATTAGTTCTCCATAAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206804 representing BC024630
 Red=Cloning site Green=Tags(s)

MKDFLGENYVHCGEVVQLPLEFVKQLCLKIQCERPE SRCDKDLDTFSGYAMCLPNLTRLQTFHFAEHRPI
 LCVEIKPKCGFIPFSNDVTHEMKHKVCRYCMHQHLKVATGKWKKI SKYCLDL YSGNKQRMHFALRSLQ
 ETQNNLRIFKNGELIYGGDARSPVADLKELAHHLKPFFFPSNGLASGPHCTKAVIRELVHVITRVLLSS
 SEKARAGALRLGLQGPVCEASPF SRSLHNQ GKNTSEHSGLPKGCLLYKTLQVQMLDQLDIEGLYPLYKR
 VEQYLEEFPEERKTLQIDGPYDEVFYQKLLDLSTEDDGTVAFALTKVQQYRVAMTAKDCSIMIALSPCLQ
 GTSSDQRPVIPSSRSRLAFSVSVLDDLKPYESIPHQYKLD SKIVNYYSKTVHAKDDTVRSTRFKEHEDC
 TLVLHKV

TRTRPLE - GFP Tag - V

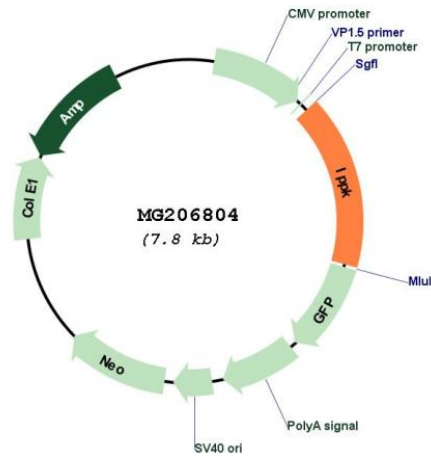
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC024630

ORF Size:	1284 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:	<ol style="list-style-type: none">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:	BC024630.1
RefSeq Size:	2911 bp
RefSeq ORF:	1283 bp
Locus ID:	75678
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]