

Product datasheet for **MR206804**

Ippk (BC024630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ippk (BC024630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ippk
Synonyms:	1810043M15Rik; InsP6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR206804 representing BC024630 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAGACTTTTTGGGAGAGAACTATGTTTCATTGTGGGGAAGTTGTTTCAGCTGCCTTTAGAGTTTGTGA
AACAACTCTGTTAAAGATACAGTGTGAAAGACCAGAGTCCCCTTGTGACAAGGACCTGGACACATTCAG
TGTTATGCTATGTGCCCTCCCAATTTAACAGACTTCAGACCTCCACTTTGCAGAGCACCGGCCGATT
CTGTGTGTAGAGATTAAGCCAAAATGTGGGTTTATTCCTTTCTCAAATGATGTTACCCACGAGATGAAGC
ACAAGGTGTGCCGATACTGCATGCACCAGCACCTCAAGGTAGCAACTGAAAAGTGAAGAAAATCAGTAA
ATACTGTCCCCTCGACCTCTACTCAGGAAATAAGCAGCGCATGCACCTTTCCTCAGAAGTCTGCTGCAG
GAGACACAGAATAATCTTAGGATATTTAAGAAATGGAGAGCTGATTTATGGTTGTGGTGATGCCCGGAGCC
CTGTGGCTGACTGAAGGAGCTTGACACCACCTGAAGCCCTTCTTCCCTTCCAACGGCTTGGCCAG
TGGCCCTCACTGCACGAAGGCTGTGATCCGTGAGCTGGTGCATGTTATCACCAGGTGCTGCTGAGCAGC
TCAGAAAAAGCCCGAGCTGGTGCCCTGAGGCTTGGCTCCAGGGCCACGAGTCTGTGAAGCCATCCTT
TCAGCAGGAGCCTACACAACCAAGGAAAAACACCTCAGAGCACTCGGGGTTACCGAAGGCTGTCTTCT
GTACAAAACCCTCCAGGTGCAGATGTTGGACCAGCTGGACATCGAAGCCCTTACCCTCTGTACAAACGG
GTTGAGCAATACCTGGAGGAGTTTCTGAGGAGAGGAAAAACATTACAGATAGATGGGCCTTATGATGAAG
TATTTTACCAGAACTGCTTGTCTGTCCACTGAGGATGATGGGACAGTGGCCTTTGCATTAACAAAGGT
GCAGCAATACAGAGTAGCCATGACTGCCAAGGACTGTTCCATCATGATCGCACTTTCCCCTGTCTACAG
GGCACCAGCTCTGACCAGAGGCTGTTATTCCTTCGTCAAGATCCCGGCTGGCCTTCTGTGTCTGTAT
TGGACCTCGACCTCAAGCCCTATGAGAGCATTCTCATCAGTATAAACTAGACAGCAAGATAGTCAACTA
TACTCAAAGACTGTGCATGCCAAAGATGACACTGTGAGGTCGACTCGGTTCAAGGAACATGAAGATTGC
ACATTAGTTCTCCATAAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206804 representing BC024630
 Red=Cloning site Green=Tags(s)

MKDFLGENYVHCGEVVQLPLEFVKQLCLKIQ CERPESRCDKDLDTFSGYAMCLPNLTRLQTFHFAEHRPI
 LCVEIKPKCGFIPFSNDVTHEMKHKVCRYCMHQHLKVATGKWKKISKYCPLDLYSGNKQRMHFALRSLQ
 ETQNNLRIFKNGELIYGGDARSPVADLKELAHHLKPFFFPSNGLASGPHCTKAVIRELVHVITRVLSS
 SEKARAGALRLGLQGPRVCEASPF SRSLHNQKNTSEHSGLPKGCLLYKTLQVQMLDQLDIEGLYPLYKR
 VEQYLEEFPEERKTLQIDGPYDEVFYQKLLDLSTEDDGTAFALTKVQQYRVAMTAKDCSIMIALSPCLQ
 GTSSDQRPVIPSSRSLAFSVSVLDDLKPYESIPHQYKLD SKIVNYYSKTVHAKDDTVRSTRFKEHEDC
 TLVLHKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

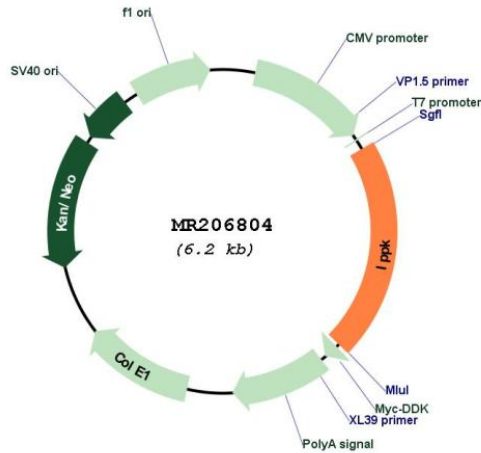
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC024630

ORF Size:	1281 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
MW:	48.7 kDa
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]