

Product datasheet for **SC100352**

IP6K1 (NM_153273) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	IP6K1
Synonyms:	IHPK1; PiUS
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC100352 sequence for NM_153273 edited (data generated by NextGen Sequencing)

```
ATGTGTGTTTGTCAAACCATGGAAGTGGGGCAGTATGGCAAGAATGCAAGTCGGGCTGGA
GACCGGGGAGTCCTCCTGGAGCCCTTCATCCACCAAGTAGGCGGACACAGCAGCATGATG
CGTTACGACGATCACACTGTGTGCAAGCCCTCATCTCCGGGAACAGCGCTTTACGAG
TCCCTCCCTCCGAAATGAAGGAGTTCACCCCTGAATACAAAGGCGTGGTATCTGTCTGT
TTTGAGGGGGACAGTGATGGTTACATCAACTTAGTGGCCTATCCTTATGTGAAAGTGAG
ACTGTGGAACAGGATGACACAACAGAACGGGAGCAACCTCGGCGCAAACACTCCCGCCGG
AGCCTGCACCGGTGAGGAGTGGCAGTGACCACAAGGAGGAGAAAGCCAGCCTGTCCCTT
GAGACCTCTGAGAGCTCACAGGAGGCAAGAGTCCGAAGGTGGAGCTGCACAGCCACTCA
GAGGTCCCTTTCCAGATGCTAGATGGCAACAGTGGCTTGAGTTCTGAGAAGATCAGCCAC
AACCCCTGGAGCCTGCGTTGTCAAGCAGCAGCTGAGCCGATGCGCTCCGAGTCCAAG
GACCGAAAGCTCTACAAGTTCCTCCTGCTTGAGAACGTGGTGCACCACTCAAGTACCCC
TGCGTGTGGACCTGAAGATGGGCACGCGGCAGCATGGCGATGACGCGTCAGCTGAGAAG
GCAGCCCGGCAGATGCGGAAATGCGAGCAGAGCACATCAGCCACGCTGGGCGTCAGGGTC
TGCGGCATGCAAGTGTACAGCTGGACACAGGGCATTACCTCTGCAGGAACAAGTACTAT
GGCCGTGGGCTCTCCATTGAAGGCTTCCGCAATGCCCTCTATCAATATCTGCACAATGGC
CTGGACCTGCGACGTGACCTGTTTGAGCCTATCCTGAGCAAACCTGCGGGGCTGAAAGCT
GTGCTGGAGCGGCAGGCCTTTACCGCTTCTACTCCAGTTCCCTGCTTGTCTATGAT
GGCAAGGAGTGCCGGGCTGAGTCCTGCCTGGACCGCCGGTCTGAGATGCGTCTCAAGCAC
CTGGACATGGTGTCTCCCTGAGGTGGCGTCATCCTGTGGCCCCAGCACCAGCCCCAGCAAC
ACCAGCCCCGAGGCGGGTCCCTCCTCTAGCCCAAGGTGGATGTCCGCATGATTGACTTT
GCACACAGCACATTCAAGGGCTTCCGGGATGACCCACCGTGCATGATGGGCCAGACAGA
GGCTACGTGTTTGGCCTGGAGAACCTCATCAGCATCATGGAACAGATGCGGGACGAGAAC
CAGTAG
```

Clone variation with respect to NM_153273.3



5' Read Nucleotide Sequence:	>OriGene 5' read for NM_153273 unedited <pre> GGATTTTGTAAACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCAGCTCCC GTAGGAGCCGTGGGCGCTCGGTGCCGGGCGGGCAGGACAGAATAAAGCTGAATAG AATCTGACCATTTGGCTTTCACCTGGCCAGGACCTTCTATGTAGCTCCCTTTTGGGCC ATGTGCTGCATCCTCTGCCCTCAGTGTGCAACTGGCCCCAACGCAATGTGTGTTGTCA AACCATGGAAGTGGGCGAGTATGGCAAGAATGCAAGTCGGGCTGGAGACCGGGAGTCCT CCTGGAGCCCTTCATCCACCAAGTAGGCGGACACAGCAGCATGATGCGTTACGACGATCA CACTGTGTGCAAGCCCTCATCTCCGGAACAGCGCTTTTACGAGTCCCTCCCTCCCGA AATGAAGGAGTTACCCCTGAATACAAAGGCGTGGTATCTGTCTGTTTGGGGGACAG TGATGGTTACATCAACTTAGTGGCTATCCTTATGTGAAAGTGAGACTGTGGAACAGGA TGACACAACAGAACGGGAGCAACCTCGGCGCAAACTCCCGCCGAGCCTGCACCGGTC AGGCAGTGGCAGTGACCACAAGGAGGAGAAAGCCAGCCTGTCCCTTGAGACCTCTGAGAG CTCACAGGANGCAAAGAGTCCGAAGGTGGAGCTGCACAGCCACTCAGAGTCCCTTTCCA GATGCTAGATGGCAACAGTGGCTTGAGTTCTGAGAAGATCAGCCACAACCCCTGGAGCCC TGCCTGTGCAAGCAGCAGCTGAGCCGCATGCGCTCCGAGTCCAANGACCGAAGCTCTAC AGTTCTTNNCTGCTGAGAACGTGTGCACACTTCAGTACCCCTGCGTGTGACCTGAAGAG GNNCAGCGCAGCATGCGATGACGCGTCAGCTGAGAAGCAGCCCGAGATGCGGATGCAG CAACACTAGCAGCTGCGTCAGCTGGC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_153273
Insert Size:	1850 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_153273.3</u> , <u>NP_695005.1</u>
RefSeq Size:	4468 bp
RefSeq ORF:	1326 bp
Locus ID:	9807

UniProt ID: [Q92551](#)

Cytogenetics: 3p21.31

Domains: IPK

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the inositol phosphokinase family. The encoded protein may be responsible for the conversion of inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5). It may also convert 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jun 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Variants 1 and 3 encode the same protein.