

## Product datasheet for **SC114385**

### Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM\_016291) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_016291) Human Untagged Clone
Tag:	Tag Free
Symbol:	Inositol Hexakisphosphate Kinase 2
Synonyms:	IHPK2; InsP6K2; PIUS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016291, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCACGCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCC
ACCAGGTCGGGGGGCACTCATGCGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCCTGGTCCCAAG
GGAACATCAGTTCTACGAGACCCCTCCCTGCTGAGATGCGCAAATCACTCCCCAGTACAAAGGTGTGGTA
TCTGTGCGCTTTGAAGAAGATGAAGACAGGAACCTGTGTCTAATAGCATATCCATTGAAAGGGGACCATG
GAATTGTGGACATTGTAGATAATTCAGACTGTGAACCAAAAAGTAAGCTCCTAAGGTGGACAACAAACAA
AAAACATCATGTCTTAGAAACAGAAAAGACCCCTAAGGACTGGTGCCTCAGCACCGTAAAGAGGAGAAA
ATGAAGAGCCATAAGTTAGAAGAAGAATTTGAGTGGCTAAAGAAATCTGAAGTCTTGTACTACACTGTAG
AGAAGAAGGGGAATATAAGTTCCAGCTTAAACACTATAACCCTTGGAGCATGAAATGTCACCAGCAACA
GTTACAGAGAATGAAGGAGAATGCAAAGCATCGGAACCGTACAAATTTATCTTACTGGAACCTGACT
TCCCGCTACGAGGTGCCTTGTGTCTTGACCTCAAGATGGGCACACGACAACATGGTGATGATGCTTCAG
AGGAGAAGGCAGCCAACCAGATCCGAAAATGTCAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGTGTG
TGGCATGCAGGTGTACCAAGCAGGCAGTGGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGCTA
TCGGTGCAGGGCTTCAAGGAGGCACTTTCCAGTCTTCCACAATGGGCGGTACCTGCGCCGTGAAGTCC
TGGGCCCTGTGCTCAAGAAGCTGACTGAGCTCAAGGCAGTGTGGAGCGACAGGAGTCCCTACCGCTTCTA
CTCAAGCTCCCTGCTGGTCATTTATGATGGCAAGGAGCGGCCGAAGTGGTCTGGACTCAGATGCTGAG
GATTTGGAGGACCTGTCAGAGGAATCAGCTGATGAGTCTGCTGGTGCCTATGCCTACAAACCCATCGGCG
CCAGCTCTGTAGATGTGCGCATGATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACACCGT
GGTGCATGAGGGCCAGGATGCTGGCTATATCTTCGGGCTCCAGAGCCTGATAGACATTGTCACAGAGATA
AGTGAGGAGAGTGGGGAGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_016291 unedited  
TATACGACTCCTATAGGCGGCCGCGACATTCGCACGAGGGAACAATAGGACGGAAACGCC  
GAGGAACCCGGCTGAGGCGGCAGAGCATCCTGGCCAGAACCAAGGAGCCAAAGACGA  
GAGGGACACACGGACAAACAACAGACAGAAGACGTAAGGCGCTGGACTCCGCTGCCTC  
CCCCATCTCCCCGCATCTGCGCCCGGAGGATGAGCCCAGCCTTCAGGGCCATGGATGTG  
GAGCCCCGCGCCAAAGGCGTCTTCTGGAGCCCTTTGTCCACCAGGTCGGGGGGCACTCA  
TGCGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCTGGTCCCAAGGGAACATCAG  
TTCTACGAGACCCCTCCCTGCTGAGATGCGCAAATTCACCTCCCAGTACAAAGGTGTGGTA  
TCTGTGCGCTTTGAAGAAGATGAAGACAGGAACTTGTGTCTAATAGCATATCCATTGAAA  
GGGGACCATGGAATTGTGGACATTGTAGATAATTCAGACTGTGAACCAAAAAGTAAGCTC  
CTAAGGTGGACAACAACAACAAAAACATCATGTCTTAGAACAGAAAGACCCCTAAGGACT  
GGNGTGCCTCAGCACCGTAAAGAGGAGAAAATGAAGAGCCATAAGTTAGAAGAAGAATTT  
GAGTGGCTAAAGAAATCTGAAGTCTTGTACTACTGTAGAGAAGAGGGGAAATATAGTT  
CCCAGCTTAAACACTATTACCCTTGGACATGGAAGGTCACCAGCCACAGTTACAGAGAA  
TGAAGGAGAATGCAAAGCATCGGAACCAGTACAAATTTATCTACTGGGAAAAGTACTTC  
CGCTTCCAGGGGCCCTTGGGGCCCTGACCTAAAAGGCCACAAACATGGGGGATGATGCT  
TCAAGGGAAGGCCACCCATCCGAAATGAGCGAAGCATCTCNCCTTGTGGGCGGGGGT  
GGGNCCCAGGGGCCAAAAGCGGGGCCTATGTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_016291 unedited  
NNNTTATCCTTTAGCTCTGNACCGCGCCCGCATNCTAGGATCGAGTTTTTTTTTTTTTT  
TTTTTTACAATAAACAAGAAAGATTGTATTAGAACATATACACTCAGNGAAGAAAGAGG  
TATCATCATCAAATGTGGAATGTTGAAGAAATAGTTAAAATAAAATAAGACTCCAAGCAC  
AGCTGGGACTGGCTCAGGCTGGGGCTCACAGAGGCCACTGCACATCAGCTCCAGGCTGCA  
GGAGCCACCACCTGGCCATACTGGCTTCCCTCCCTGACGCAGCACAGCTGTGCCTGGGACA  
CAGAGTCGCTCTCAAGTACTGGAGCAGTAGCAAGCTTACTCCCCACTTCTCAATTAT  
CTTTGGGACCATGTCTTATAAGGCCTTGGAGCCCGGAAAATTTACCCCGGATTCTTGCC  
CCTTTGGCCCCACCGGGTCTCCCTAAAAGTCCGTGGGGGGGGGGGGGCAAAAAGGGAT  
TTTCCCCCCTTTTACCAAAATGCGCCCCAGGGGTTTTTGTGGCTTTTGCCCCCACC  
CCCCCTTTCTGCGTTTTCTCTGGGGAGAGGGCCCCCCCCAAAACTCTTAAATTTTTG  
GGGCCCCGACACCCCTTTTTGGCCGCGCCCTTCTTTCTTCTCTTATAAAAAACAC  
ACCCACCGGGTCTTTTCTTTAAAAAAGCGGGGGGACCCCTTCCGTCCCCCCCCAA  
CCCATGTTTTTGGGGCCACAAAATTTTTTTTTTATACACACGCGCCCATAAACTTT  
TTTGCGCGCGCCCCCCCCCTTTTTTGGAAACCAACAACACAAACCCCT

**Restriction Sites:**

ECORI-NOT

**ACCN:**

NM\_016291

**Insert Size:**

1770 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).

<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>	<a href="#">NM_016291.2</a> , <a href="#">NP_057375.2</a>
<b>RefSeq Size:</b>	1812 bp
<b>RefSeq ORF:</b>	1281 bp
<b>Locus ID:</b>	51447
<b>UniProt ID:</b>	<a href="#">Q9UHH9</a>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	IPK
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a protein that belongs to the inositol phosphokinase (IPK) family. This protein is likely 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 and affect the growth suppressive and apoptotic activities of interferon-beta in some ovarian cancers. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 2 encode the same isoform (a).</p>