

## Product datasheet for **RC223472**

### Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM\_001005910) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM\_001005910) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IP6K2  
**Synonyms:** IHPK2; InsP6K2; PIUS  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC223472 representing NM\_001005910  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCC**  
**ACCAGGTCGGGGGCACTCATGCGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCTGGTCCCAAG**  
**GGAACATCAGTTCTACGAGACCCTCCCTGCTGAGATGCGCAAATTCACTCCCCAGTACAAAGGACAAAGC**  
**CAAAGGCCCTTGTAGCTGGCCATCCCTGCCCAATTTTTCCCTGGTCTTTCCCTGTGCCACAGG**  
**GAAGTGTGGCC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC223472 representing NM\_001005910  
Red=Cloning site Green=Tags(s)

MSPAFRAMDVEPRAKGVLLPEFVHQVGGHSCVLRFNETTLCCKPLVPREHQFYETLPAEMRKFTPQYKQGS  
QRPLVSWPSLPHFFPWSFPLWPQGSVA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

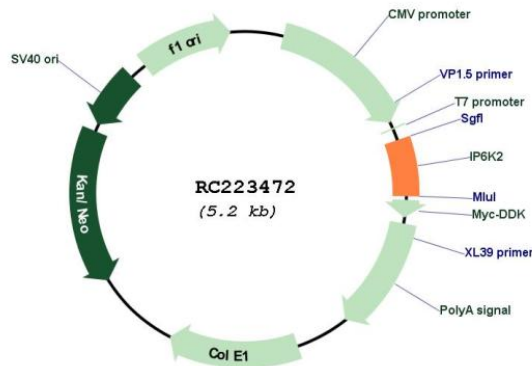


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**Cloning Scheme:**



**Plasmid Map:**



ACCN: NM\_001005910

ORF Size: 291 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001005910.3</a>
<b>RefSeq Size:</b>	1257 bp
<b>RefSeq ORF:</b>	294 bp
<b>Locus ID:</b>	51447
<b>UniProt ID:</b>	<a href="#">Q9UHH9</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	11.2 kDa
<b>Gene Summary:</b>	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]