

## Product datasheet for RC231031

### Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM\_001190316) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM\_001190316) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Inositol Hexakisphosphate Kinase 2  
**Synonyms:** IHPK2; InsP6K2; PIUS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC231031 representing NM\_001190316  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCCTGAACCTCCCTGAGGCCAGTCTACTGAGCAGAGCATCCTGGCCAGAACAAGCCAAGGAGCCAA  
GACGAGAGGGACACCGACAACAACAGACAGAAGACGTACTGGCCGCTGGACTCCGCTGCCTCCCCCA  
TCTCCCCGCCATCTGCGCCGGAGGATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAA  
GGCGTCTTCTGGAGCCCTTTGTCCACCAGGTCGGGGGCACTCATGCGTGCTCCGTTCAATGAGACAA  
CCCTGTGCAAGCCCTGGTCCCAAGGGAACATCAGTTCTACGAGACCCTCCCTGCTGAGATGCGCAAATT  
CACTCCCCAGTACAAAGGTAAGTCCCAGCTGCTGGAGGGTTGCCACACTGGCGAGGAGATGTGAGAGAT  
CGTGGCCATGGAAGGCCCTGGCAGCCATCCCTGGAGCCCTCACTCCCTCCCACTCTGTGCTTTCCCTCCC  
TCTCCTCTTCTCCTCCTCTGGCCCTCAGCCAGCATCTCACACCCTCAGTTTTCAATCCCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231031 representing NM\_001190316  
Red=Cloning site Green=Tags(s)

MSLNLP EASLLSRASWPEQAKEPRREGHTDKQQTEDVLAAGLRCLPHLPAICARRMSPAFRAMDVEPRAK  
GVLLPEFVHQVGGHSCVLRFNETTLCKPLVPREHQFYETLPAEMRKFTPQYKGSQQLLEGLPHWRGDVDR  
RGHGRPWQPSLEPSLPPTLCFPSLSSFSSSWPSAQHLTPSVFNPW

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NM\_001190316

**ORF Size:** 555 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:**

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:** [NM\\_001190316.1](#), [NP\\_001177245.1](#)

**RefSeq ORF:** 558 bp

**Locus ID:** 51447

**UniProt ID:** [Q9UHH9](#)

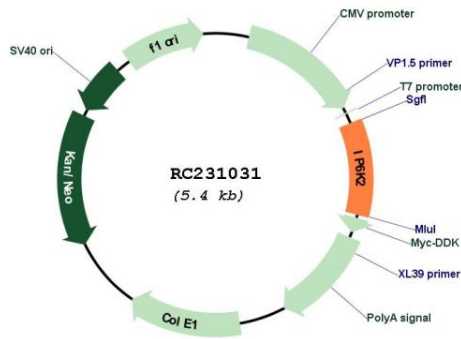
**Cytogenetics:** 3p21.31

**Protein Families:** Druggable Genome

**MW:** 21.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC231031