

Product datasheet for **RC228031**

Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001146178) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001146178) 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:	>RC228031 representing NM_001146178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCC
 ACCAGGTCGGGGGGCACTCATGCGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCTGGTCCCAAG
 GGAACATCAGTTCTACGAGACCCTCCCTGCTGAGATGCGCAAATTCACCTCCCCAGTACAAAGGGGACATC
 AGCAGCCACCAGCATGGTGGGGTCTTTGTTGGGGAGTGGGGAGTCTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

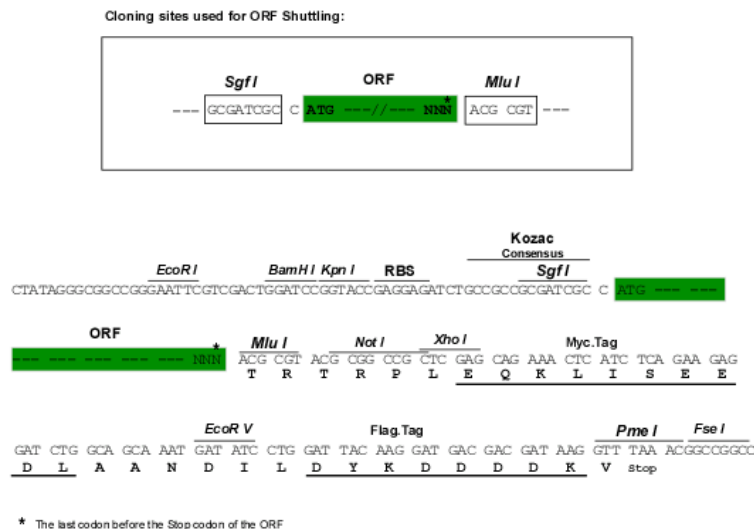
Protein Sequence:	>RC228031 representing NM_001146178 Red=Cloning site Green=Tags(s)
	MSPAFRAMDVEPRAKGVLLEPFVHQVGGHSCVLRFNETTLCKPLVPREHQFYETLPAEMRKFTPQYKGGDI SSHQHGGVFVGEWGSLL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:



ACCN: NM_001146178

ORF Size: 261 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.

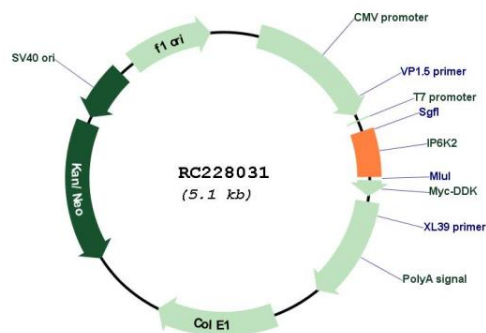
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001146178.2](#), [NP_001139650.1](#)

RefSeq Size: 1324 bp
 RefSeq ORF: 264 bp
 Locus ID: 51447
 UniProt ID: [Q9UHH9](#)
 Cytogenetics: 3p21.31
 Protein Families: Druggable Genome
 MW: 9.8 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 RC228031