

Product datasheet for **RC221143**

Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001005909) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001005909) 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)



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ORF Nucleotide Sequence:

>RC221143 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCTTCTGGAGCCTTTGTCC
 ACCAGGTCGGGGGCACTCATGCGTCTCGCTTCAATGAGACAACCTGTGCAAGCCCTGGTCCCAAG
 GGAACATCAGTTCTACGAGACCTCCCTGCTGAGATGCGCAAATCACTCCCCAGTACAAAGGTGTGGTA
 TCTGTGCGCTTTGAAGAAGATGAAGACAGGAACCTGTGTCTAATAGCATATCCATTGAAAGGGGACCATG
 GAATTGTGGACATTGTAGATAATTCAGACTGTGAACAAAAAGTAAGCTCCTAAGGTGGACAACAAACAA
 AAAACATCATGTCTTAGAAACAGAAAAGACCCCTAAGGACTGGTGCCTCAGCACCGTAAAGAGGAGAAA
 ATGAAGAGCCATAAGTTAGAAGAAGAATTTGAGTGGCTAAAGAAATCTGAAGTCTGTACTACACTGTAG
 AGAAGAAGTGAATATAAGTTCCAGCTTAAACACTATAACCCTTGGAGCATGAAATGTCACCAGCAACA
 GTTACAGAGAATGAAGGAGAATGCAAAGCATCGGAACCAGTACAAATTTATCTTACTGAAAACCTGACT
 TCCCGCTACGAGGTGCCTTGTGTCTTGACCTCAAGATGGGCACACGACAACATGGTGATGATGCTTCAG
 AGGAGAAGGCAGCCAACAGATCCGAAAATGTCAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGTGTG
 TGGCATGCAGGTGTACCAAGCAGGCAGTGGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGCTA
 TCGGTGCAGGGCTTCAAGGAGGCACTTTCCAGTCTTCCACAATGGGCGGTACCTGCGCCGTGAACCTC
 TGGGCCCTGTGCTCAAGAAGCTGACTGAGCTCAAGGCAGTGTGGAGCGACAGGAGTCTACCGCTTCTA
 CTCAAGCTCCCTGCTGGTCATTTATGATGGCAAGGAGCGCCGAAGTGGTCTGGACTCAGATGCTGAG
 GATTTGGAGGACCTGTCAGAGGAATCAGCTGATGAGTCTGCTGGTGCCTATGCCTACAAACCCATCGGCC
 CCAGCTCTGTAGATGTGCGCATGATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACCCGT
 GGTGCATGAGGGCCAGGATGCTGGCTATATCTTCGGGCTCCAGAGCCTGATAGACATTGTACAGAGATA
 AGTGAGGAGAGTGGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221143 protein sequence
 Red=Cloning site Green=Tags(s)

MSPAFRAMDVEPRAKGVLLLEPFVHQVGGHSCVLRFNETTLCCKPLVPREHQFYETLPAEMRKFTPQYKGVV
 SVRFEEDRNLCLIAAYPLKGDHGIVDIVDNDCEPKSKLLRWTNKKHHVLETEKTPKDWVRQHRKEEK
 MKSHKLEEEFEWLKKSEVLYYTVKKNWISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFI LLENLT
 SRYEVPVLDLKMGRQHGDDASEEKAANQIRKCQQSTSAVIGVRVCGMQVYQAGSGQLMFMNKYHGRKL
 SVQGFKEALFQFFHNGRYLRRELLGPVLKKLTELKAVLERQESYRFYSSLLVIYDGERPEVVLDSDAE
 DLEDLSEESADESAGAYAKPIGASSVDVRMIDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLIDIVTEI
 SEESGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6357_b01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001005909

ORF Size: 1278 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_001005909.2](#), [NP_001005909.1](#)

RefSeq Size: 1810 bp

RefSeq ORF: 1281 bp

Locus ID: 51447

UniProt ID: [Q9UHH9](#)

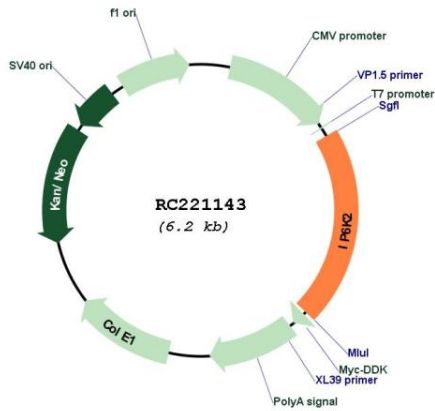
Cytogenetics: 3p21.31

Protein Families: Druggable Genome

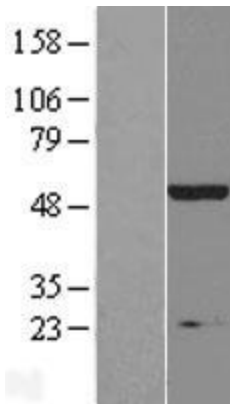
MW: 49.3 kDa

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 RC221143



Western blot validation of overexpression lysate (Cat# [LY423667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221143 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).