

## Product datasheet for **RG209533**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_016291) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inositol Hexakisphosphate Kinase 2
Synonyms:	IHPK2; InsP6K2; PIUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209533 representing NM_016291 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCC  
ACCAGGTCGGGGGCACTCATGCGTGTCCGCTTCAATGAGACAACCCTGTGCAAGCCCCGGTCCCAAG  
GGAACATCAGTTCTACGAGACCCCTCCCTGCTGAGATGCGCAAATCACTCCCCAGTACAAAGGTGTGGTA  
TCTGTGCGCTTTGAAGAAGATGAAGACAGGAAGTGTGTCTAATAGCATATCCATTGAAAGGGGACCATG  
GAATTGTGGACATTGTAGATAATTCAGACTGTGAACAAAAAGTAAAGCTCCTAAGGTGGACAACAACAA  
AAAACATCATGTCTTAGAAACAGAAAAGACCCCTAAGGACTGGGTGCGTCAGCACCGTAAAGAGGAGAAA  
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GTTACAGAGAAATGAAGGAGAAATGCAAAGCATCGGAACCAAGTACAAATTTATCTTACTGAAAACTGACT  
TCCCGCTACGAGGTGCCTTGTGCTTACCTCAAGATGGGCACACGACAACATGGTGATGATGCTTCAG  
AGGAGAAGGCAGCCAACCAGATCCGAAAATGTCAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGTGTG  
TGGCATGCAGGTGTACCAAGCAGGCAGTGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGCTA  
TCGGTGCAGGGCTCAAGGAGGCACCTTTCCAGTCTTCCACAATGGGCGGTACCTGCGCGTGAACCTCC  
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CTCAAGCTCCCTGCTGGTCATTTATGATGGCAAGGAGCGGCCCAAGTGGTCTTGGACTCAGATGCTGAG  
GATTTGGAGGACCTGTCAGAGGAATCAGCTGATGAGTCTGCTGGTGCCTATGCCTACAAACCCATCGGCG  
CCAGCTCTGTAGATGTGCGCATGATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACACCGT  
GGTGCATGAGGGCCAGGATGCTGGCTATATCTCGGGCTCCAGAGCTGATAGACATTGTCACAGAGATA  
AGTGAGGAGAGTGGGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209533 representing NM\_016291  
Red=Cloning site Green=Tags(s)

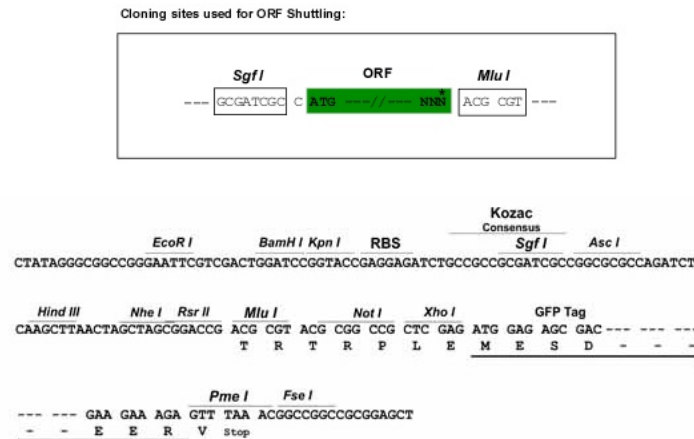
MSPAFRAMDVEPRAKGVLLLEPFVHQVGGHSCVLRFNETTLCCKPLVPREHQFYETLPAEMRKFTPQYKGVV  
 SVRFEEDERNLCLIAIYPLKGDHGIVDIVDSDCEPKSKLLRWTNKKHHVLETEKTPKDWVRQHRKEEK  
 MKSHKLEEEFEWLKKSEVLYYTVKKNWISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFI LLENLT  
 SRYEVPVLDLKMGRTRQHGDDASEEKAANQIRKCQQSTSAVIGVRVCGMQVYQAGSGQLMFMNKYHGRKL  
 SVQGFKEALFQFFHNGRYLRRELLGPVLKKLTELKAVLERQESYRFYSSLLVIYDGKERPEVVLDSDAE  
 DLEDLSEESADESAGAYYKPIGASSVDVRMIDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLIDIVTEI  
 SEESGE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016291

**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\\_016291.2](#), [NP\\_057375.2](#)

**RefSeq Size:** 1812 bp

**RefSeq ORF:** 1281 bp

**Locus ID:** 51447

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

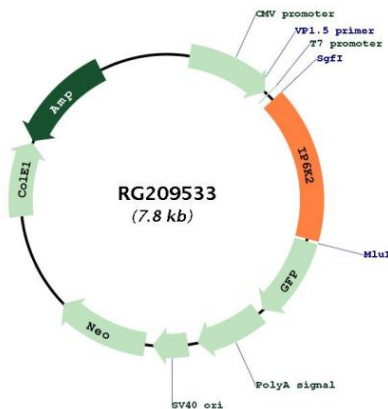
**Cytogenetics:** 3p21.31

**Domains:** IPK

**Protein Families:** Druggable Genome

**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 RG209533