

Product datasheet for **RG221143**

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:	TurboGFP
Symbol:	IP6K2
Synonyms:	IHPK2; InsP6K2; PIUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221143 representing NM_001005909 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGCCTTCAGGGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCC
ACCAGGTCGGGGGCACTCATGCGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCCGGTCCCAAG
GGAACATCAGTTCTACGAGACCCCTCCCTGCTGAGATGCGCAAATCACTCCCCAGTACAAAGGTGTGGTA
TCTGTGCGCTTTGAAGAAGATGAAGACAGGAAGTGTGTCTAATAGCATATCCATTGAAAGGGGACCATG
GAATTGTGGACATTGTAGATAATTCAGACTGTGAACAAAAAGTAAAGCTCCTAAGGTGGACAACAACAA
AAAACATCATGTCTTAGAAACAGAAAAGACCCCTAAGGACTGGGTGCGTCAGCACCGTAAAGAGGAGAAA
ATGAAGAGCCATAAGTTAGAAGAAGATTTGAGTGGCTAAAGAAATCTGAAGTCTTGTACTACACTGTAG
AGAAGAAGGGGAATATAAGTTCCAGCTTAAACACTATAACCCCTGGAGCATGAAATGTCACCAGCAACA
GTTACAGAGAAATGAAGGAGAAATGCAAAGCATCGGAACCAAGTACAAATTTATCTTACTGAAAACTGACT
TCCCGCTACGAGGTGCCTTGTGCTTGGACCTCAAGATGGGCACACGACAACATGGTGATGATGCTTCAG
AGGAGAAGGCAGCCAACCAGATCCGAAAATGTCAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGTGTG
TGGCATGCAGGTGTACCAAGCAGGCAGTGGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGCTA
TCGGTGCAGGGCTCAAGGAGGCACCTTTCCAGTCTTCCACAATGGGCGGTACCTGCGCGTGAACCTCC
TGGGCCCTGTGCTCAAGAAGCTGACTGAGCTCAAGGCAGTGTGGAGCGACAGGAGTCTACCGCTTCTA
CTCAAGCTCCCTGCTGGTCATTTATGATGGCAAGGAGCGGCCCAAGTGGTCTTGGACTCAGATGCTGAG
GATTTGGAGGACCTGTCAGAGGAATCAGCTGATGAGTCTGCTGGTGCCTATGCCTACAAACCCATCGGCG
CCAGCTCTGTAGATGTGCGCATGATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACACCGT
GGTGCATGAGGGCCAGGATGCTGGCTATATCTCGGGCTCCAGAGCTGATAGACATTGTCACAGAGATA
AGTGAGGAGAGTGGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221143 representing NM_001005909
 Red=Cloning site Green=Tags(s)

MSPAFRAMDVEPRAKGVLLLEPFVHQVGGHSCVLRFNETTLCCKPLVPREHQFYETLPAEMRKFTPQYKGVV
 SVRFEEDERNLCLIAIYPLKGDHGIVDIVDNDCEPKSKLLRWTNKKHHVLETEKTPKDWVRQHRKEEK
 MKSHKLEEEFEWLKKSEVLYYTVKKGNISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFI LLENLT
 SRYEVPVLDLKMGRTRQHGDDASEEKAANQIRKCCQSTSAVIGVRVCGMQVYQAGSGQLMFMNKYHGRKL
 SVQGFKEALFQFFHNGRYLRRELLGPVLKKLTELKAVLERQESYRFYSSLLVIYDGKERPEVVLDSDAE
 DLEDLSEESADESAGAYAYKPIGASSVDVRMIDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLIDIVTEI
 SEESGE

TRTRPLE - GFP Tag - V

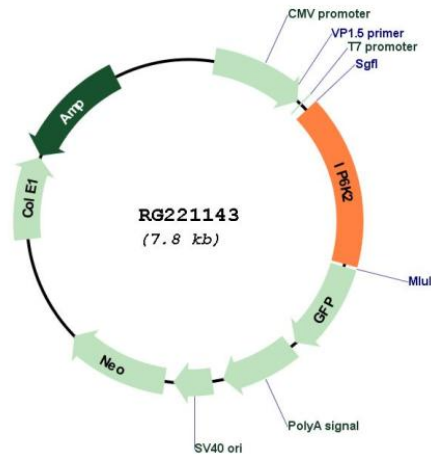
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	1809 bp
RefSeq ORF:	1281 bp
Locus ID:	51447
UniProt ID:	Q9UHH9
Cytogenetics:	3p21.31
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]