

Product datasheet for **RG202316**

IP6K1 (NM_153273) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IP6K1
Synonyms:	IHPK1; PiUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202316 representing NM_153273
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTGTGTTTGTCAAACCATGGAAGTGGGGCAGTATGGCAAGAATGCAAGTCGGGCTGGAGACCGGGGAG
TCCTCTGGAGCCCTTCATCCACCAAGTAGGCGGACACAGCAGCATGATGCGTTACGACGATCACACTGT
GTGCAAGCCCTCATCTCCCGGAACAGCGCTTTACGAGTCCCTCCCTCCGAAATGAAGGAGTTCACC
CCTGAATACAAAGGCGTGGTATCTGTCTGTTTGGGGGACAGTATGTTTACATCAACTAGTGGCCT
ATCCTTATGTGGAAGTGAAGTGTGGAACAGGATGACACAACAGAACGGGAGCAACCTCGGCGCAACACA
CTCCCGCCGGAGCCTGCACCGGTGAGGAGTGGCAGTGACCAAGGAGGAGAAAGCCAGCCTGTCCCTT
GAGACCTCTGAGAGCTCACAGGAGGCAAGAGTCCGAAGTGGAGCTGCACAGCCACTCAGAGGTCCCTT
TCCAGATGCTAGATGGCAACAGTGGCTTGAGTTCTGAGAAGATCAGCCACAACCCCTGGAGCCTGCGTTG
TCACAAGCAGCAGCTGAGCCGATGCGCTCCGAGTCCAAGGACCGAAAGCTCTACAAGTTCCTGCTGCTT
GAGAAGCTGGTGCACCACTTCAAGTACCCCTGCGTGTGGACCTGAAGATGGGACGCGGCAGCATGGCG
ATGACGCGTCAGCTGAGAAGGAGCCCGGCAGATGCGGAAATGCGAGCAGAGCAGCATCAGCCACGCTGGG
CGTCAGGCTCTGCGGCATGACAGGTGACAGCTGGACACAGGGCATTACCTCTGCAGGAACAAGTACTAT
GGCCGTGGGCTCTCCATTGAAGGCTTCCGCAATGCCCTCTATCAATATCTGCACAATGGCCTGGACCTGC
GACGTGACCTGTTGAGCCTATCCTGAGCAAACTGCGGGGCTGAAAGCTGTGCTGGAGCGGCAGGCCTC
TTACCGCTTCTACTCCAGTTCCTGCTGTGCTATGATGGCAAGGAGTCCCGGGCTGAGTCTGCTGCTG
GACCGCGGTCTGAGATGCGTCTAAGCACCTGGACATGGTGTCCCTGAGGTGGCGTCATCTGTGGCC
CCAGCACCAGCCCCAGCAACACCAGCCCCGAGGCGGGTCCCTCCTCTCAGCCCAAGGTGGATGTCCGCAT
GATTGACTTTGCACACAGCACATTCAAGGGCTTCCGGGATGACCCACCGTGATGATGGGCCAGACAGA
GGCTACGTGTTGGCCTGGAGAACCTCATCAGCATCATGGAACAGATGCGGGACGAGAACCAG

AG**CGGACCG**ACGCGTACGCGCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG202316 representing NM_153273

Red=Cloning site Green=Tags(s)

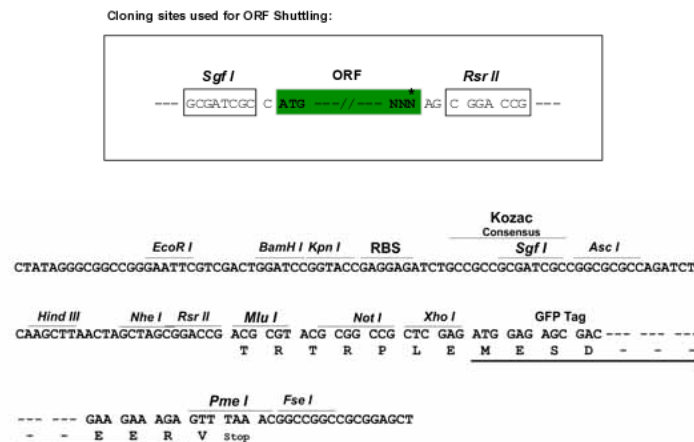
MCVCQTMEVGQYGKNASRAGDRGVLLPEFIHQVGGHSSMMRYDDHTVCKPLISREQRFYESLPPEMKEFT
PEYKGVVSVCFEGSDGYINLVAYPYVESETVEQDDTTEREQPRRKHSRRSLHRSGSGSDHKEEKASLSL
ETSESSQEAQSPKVELHSHSEVPFQMLDGNLSSSEKISHNPWSLRCHKQQLSRMRSESKDRKLYKFLLL
ENVVHHFKYPCVLDLKMGTQRHGDASAEGAARQMRKCEQSTATLGVRVCGMQVYQLDTGHYLCRNKYY
GRGLSIEGFRNALYQYLHNLDLRRDLFEPILSKLRGLKAVLERQASYRFYSSLLVIYDGKECRAESCL
DRRSEMLKHLDMVLPEVASSCGPSTSPSNTSPEAGPSSQPKVDVRMIDFAHSTFKGFRDPTVHDGPDR
GYVFGLENLISIMEQMRDENQ

SGPTRTRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_153273

ORF Size:

1323 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:

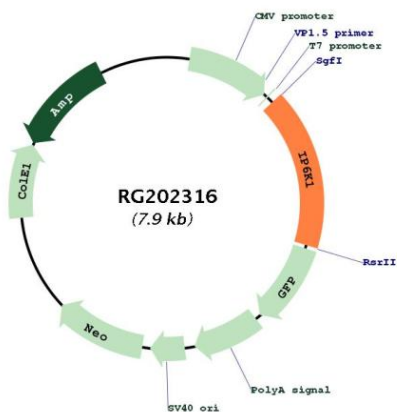
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_153273.4</u>
RefSeq Size:	4468 bp
RefSeq ORF:	1326 bp
Locus ID:	9807
UniProt ID:	<u>Q92551</u>
Cytogenetics:	3p21.31
Domains:	IPK
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the inositol phosphokinase family. The encoded protein may be 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. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RG202316