

Product datasheet for **RG234104**

IP6K1 (NM_001242829) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IP6K1 (NM_001242829) Human Tagged ORF Clone
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:	>RG234104 representing NM_001242829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTGTGTTTGTCAAACCATGGAAGTGGGGCAGTATGGCAAGAATGCAAGTCGGGCTGGAGACCGGGGAG
 TCCTCCTGGAGCCCTTCATCCACCAAGTAGGCGGACACAGCAGCATGATGCGTTACGACGATCACACTGT
 GTGCAAGCCCCTCATCTCCCGGAACAGCGCTTTACGAGTCCCTCCCTCCCGAAATGAAGGAGTTCACC
 CCTGAATACAAAGGCGTGGTATCTGTCTGTTTGGGGGACAGTGATGGTTACATCAACTTAGTGGCT
 ATCCTTATGTGAAAGTGAGACTGTGGAACAGGATGACACAACAGAACGGGAGCAACCTCGGCGCAAACA
 CTCCCGCCGAGCCTGCACCGGTGAGGAGTGGCAGTGACCAAGGAGGAGAAAGCCAGCCTGTCCCTT
 GAGACCTCTGAGAGCTCAGAGGAGGCAAGAGTCCGAAGGTGGAGCTGCACAGCCACTCAGAGGTCCCTT
 TCCAGATGCTAGATGGCAACAGTGGCTTGAGTTCTGAGAAGATCAGCCACAACCCCTGGAGCCTGCGTTG
 TCACAAGCAGCAGCTGAGCCGCATGCGCTCCGAGTCCAAGGACCGAAAGCTCTACAAGTTCTCTGCTT
 GAGAACGTGGTGCACCACTTCAAGTACCCTGCGTGTGGACCTGAAGATGGGCACGCGGCAGCATGGCG
 ATGACGCGTCAGCTGAGAAGGCAGCCCGGCAGATGCGGAAATGCGAGCAGAGCACATCAGCCACGCTGGG
 CGTCAGGCTGCGGCATGCAGGTGTACCAGCTGGACACAGGGCATTACCTCTGCAGGAACAAGTACTAT
 GGCCGTGGGCTCTCCATTGAAGGCTTCCGCAATGCCCTCTAATATCTGCACAATGGCCTGGACCTGC
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 TTACCGCTTCTACTCCAGTTCCTGCTTGTCTATGATGGCAAGGAGTGCCGGGCTGAGTCTGCCTG
 GACCGCCGGTCTGAGATGCGTCTCAAGCACCTGGACATGGTGCTCCCTGAGGTGGCGTCATCCTGTGGCC
 CCAGCACCAGCCCAGCAACACCAGCCCGAGGCGGTCCTCCTCTCAGCCCAAGGTGGATGTCCGCAT
 GATTGACTTTGCACACAGCACATTCAAGGGCTTCCGGGATGACCCACCGTGCATGATGGCCAGACAGA
 GGCTACGTGTTTGGCCTGGAGAACCTCATCAGCATCATGGAACAGATGCGGGACGAGAACCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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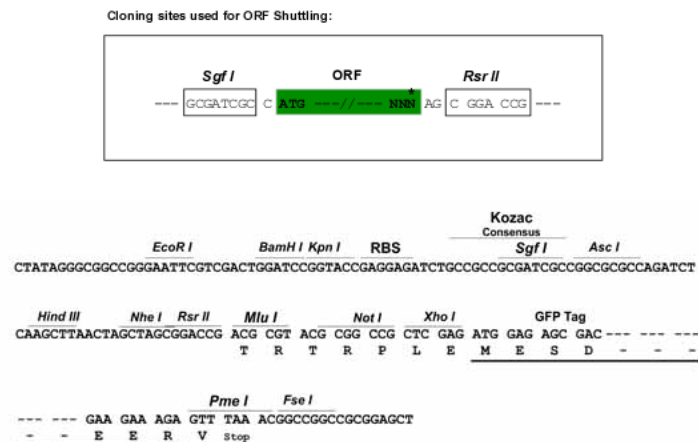
Protein Sequence: >RG234104 representing NM_001242829
 Red=Cloning site Green=Tags(s)

MCVCQTMEVGQYGKNASRAGDRGVLLPEPFIHQVGGHSSMMRYDDHTVCKPLISREQRFYESLPPEMKEFT
 PEYKGVSVSVCFEQSDGYINLVAYPYVESETVEQDDTTEREQPRRKHSRRSLHRSVSGSDHKEEKASLSL
 ETSESSQEAQSPKVELHSHSEVPFQMLDGNLSEKISHNPWSLRCHKQQLSRMRSESKDRKLYKFLLL
 ENVVHHFKYPCVLDLKMGRQHGDDASAEKAARQMRKCEQSTATLGVRVCGMQVYQLDTGHYLCRNKYY
 GRGLSIEGFRNALYQYLHNGLDLRRDLFEPILSKLRGLKAVLERQASYRFYSSLLVIYDGKECRAESCL
 DRRSEMRLKHLDMVLPEVASSCGPSTSPSNTSPEAGPSSQPKVDVRMIDFAHSTFKGFRDPTVHDGPDR
 GYVFGLENLISIMEQMRDENQ

SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001242829

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.

RefSeq: [NM_001242829.1](#), [NP_001229758.1](#)

RefSeq Size: 4806 bp

RefSeq ORF: 1326 bp

Locus ID: 9807

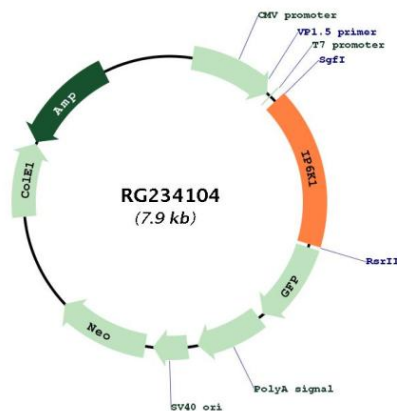
UniProt ID: [Q92551](#)

Cytogenetics: 3p21.31

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 RG234104