

Product datasheet for RC220137

IHPK3 (IP6K3) (NM_054111) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IHPK3 (IP6K3) (NM_054111) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IHPK3
Synonyms:	IHPK3; INSP6K3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220137 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTGTGCAAAACAGCGCAGATGCCGGGGACATGAGGGCAGGCGTGACGCTGGAGCCCTTCTGCACC
 AGGTCGGGGGACATGAGCGTGATGAAGTATGACGAGCATACGGTGTGAAGCCCTCGTCTCCGGGA
 GCAGAGGTTCTATGAATCCCTGCCACTGGCCATGAAGCGGTTACCCACAGTACAAAGGTACCGTCACA
 GTGCACCTCTGGAAGACAGCACAGGCCATCTCAGCTTGGTTGCCAACCCAGTGAAGGAGAGCCAGGAGC
 CCTTCAAGGTCTCCAGAGTCCGGCGCGGTGGCCATATGGCAGACGCTCCAGCAGACCACCGGCAGCAA
 TGGCAGCGACTGCACCCTTGCCAGTGGCCGCATGCCAGCTGGCAGCTCACCAAGGAGAGCCCGGCC
 AAGGCTCTTCTGAGGTCCGAGCCCCACCTCAACACTCCAGCCTTCTCGCTGGTGAAGACACCAACGGAA
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 CTCCGAGTACCCAGAGAACAAGCGGCATCGGTTCTTGTGCTGGAAATGTAGTGTACAGTACACGCAT
 CCCTGTGTCCTGGATCTGAAGATGGGGACCGGCAGCACGGCGATGATGCATCGGAGGAGAAGAAGGCC
 GCCACATGAGGAAGTGTGCGCAGAGCACCTCAGCTGCCTGGGTGTGCGCATCTGCGGCATGCAGGTTTA
 TCAAACAGATAAGAAGTACTTTCTGCAAAGACAAGTACTATGGAAGAAAACCTCAGTGGAGGGGTTT
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 ACCAGCTCCGGGCCCTCTCTGTCTATTAGGAGCCAGAGTTTATACCGCTTCTATTCCAGCTCTCTCT
 TGTCTATGATGGGCAGGAACCAAGAGAGCCAGGAGCCGATCCTCACGAGGCTCCCCAG
 GCAGCCACGGTAGCTCTCCCGTGGTCTACCAAGGTTGACATCCGCATGATTGACTTTGCTCATACCA
 CATACAAGGGCTACTGGAATGAGCACACCACCTACGATGGACCAGACCCTGGCTATATTTTGGCCTGGA
 AAACCTCATCAGGATCTGCAGGATATCCAAGAGGGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC220137 protein sequence
 Red=Cloning site Green=Tags(s)

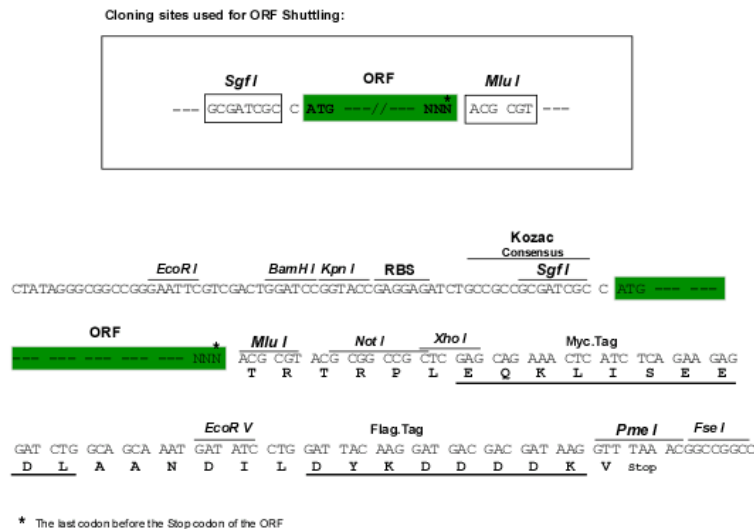
MVVQNSADAGDMRAGVQLEPFLHQVGGHMSVMKYDEHTVCKPLVSREQRFYESLPLAMKRFTPQYKGTVT
 VHLWKDSTGHL SLVANPVKESQEPFKVSTESA AVAIWQTLQQTGNSGSDCTLAQWPHAQLARSPKESPA
 KALLRSEPHLNTPAFSLVEDTNGNQVERKS FNPWGLQCHQ AHLTRLCSEYPENKRHRFLLLENVVSQYTH
 PCVLDLKMGRQHQGDDASEEKKARHMRKCAQSTACLGVRICGMQVYQTDKKYFLCKDKYYGRKLSVEGF
 RQALYQFLHNGSHLRRELEPILHQLRALLSVIRSQSSYRFYSSLLVIYDQEPPEPAPGSPHPHEAPQ
 AAHGSSPGGLTKVDIRMIDFAHTTYKGYWNEHTTYDGPDPGYIFGLENLIRILQDIQEGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6456_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_054111

ORF Size: 1230 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: [NM_054111.5](#)

RefSeq Size: 2711 bp

RefSeq ORF: 1233 bp

Locus ID: 117283

UniProt ID: [Q96PC2](#)

Cytogenetics: 6p21.31

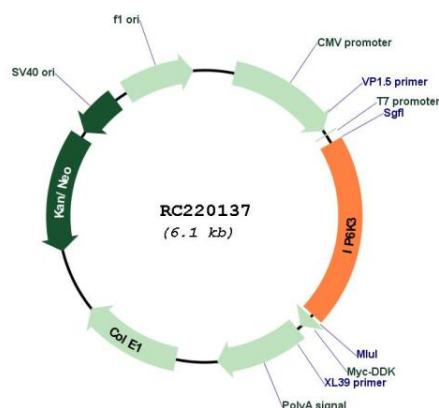
Domains: IPK

Protein Families: Druggable Genome

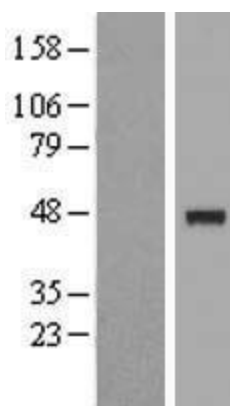
MW: 46.4 kDa

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. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Dec 2008]

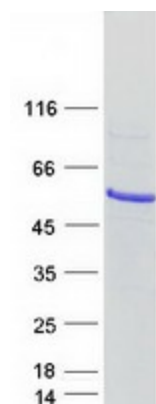
Product images:



Circular map for RC220137



Western blot validation of overexpression lysate (Cat# [LY428293]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220137] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IP6K3 protein (Cat# [TP320137]). The protein was produced from HEK293T cells transfected with IP6K3 cDNA clone (Cat# RC220137) using MegaTran 2.0 (Cat# [TT210002]).