

Product datasheet for **RG220137**

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:	TurboGFP
Symbol:	IHPK3
Synonyms:	IHPK3; INSP6K3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220137 representing NM_054111 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTTGTGCAAAACAGCGCAGATGCCGGGGACATGAGGGCAGGCGTGACGCTGGAGCCCTTCTGCACC
AGGTCGGGGGACATGAGCGTGATGAAGTATGACGAGCATACGGTGTGCAAGCCCTCGTCTCCGGGA
GCAGAGGTTCTATGAATCCCTGCCACTGGCCATGAAGCGGTTACCCACAGTACAAAGGTACCGTCACA
GTGCACCTCTGGAAGACAGCACAGGCCATCTCAGCTTGGTTGCCAACCCAGTGAAGGAGAGCCAGGAGC
CCTTCAAGGTCTCCACAGAGTCGGCGGCGGTGGCCATATGGCAGACGCTCCAGCAGACCACCGGCAGCAA
TGGCAGCGACTGCACCCTTGCCAGTGGCCGATGCCAGCTGGCAGCTCACCAAGGAGAGCCCGGCC
AAGGCTCTTCTGAGGTCCGAGCCCCACCTCAACACTCCAGCCTTCTCGCTGGTGAAGACACCAACGGAA
ACCAGGTTGAGAGGAAGAGCTTCAACCCGTGGGCGCTGCAATGCCACCAGGCCACCTGACCCGCTGTG
CTCCGAGTACCCAGAGAACAAGCGGCATCGGTTCTTGTGCTGGAAATGTAGTGTACAGTACACGCAT
CCCTGTGTCCTGGATCTGAAGATGGGGACCGGCAGCAGCGCATGATGCATCGGAGGAGAAGAAGGCC
GCCACATGAGGAAGTGTGCGCAGAGCACCTCAGCTGCCTGGGTGTGCGCATCTGCGGCATGCAGTTTA
TCAAACAGATAAGAAGTACTTTCTGCAAAGACAAGTACTATGGAAGAAAACCTCAGTGGAGGGGTTT
AGACAAGCCCTCTATCAGTTCTACATAATGGAAGCCACCTCCGAGGGAGCTCCTGGAGCCCATCTCTG
ACCAGCTCCGGGCCCTCTCTGTGTCATTAGGAGCCAGAGTTTACACCGCTTCTATTCCAGCTCTCTCT
TGTCATCTATGATGGGCAGGAACCAAGAGAGCCAGGAGCCGATCCTCACGAGGCTCCCCAG
GCAGCCACGGTAGCTCTCCCGTGGTCTCACCAAGGTTGACATCCGCATGATTGACTTTGCTCATACCA
CATACAAGGGCTACTGGAATGAGCACACCACCTACGATGGACCAGACCCTGGCTATATTTTGGCCTGGA
AAACCTCATCAGGATCTGCAGGATATCCAAGAGGGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220137 representing NM_054111
 Red=Cloning site Green=Tags(s)

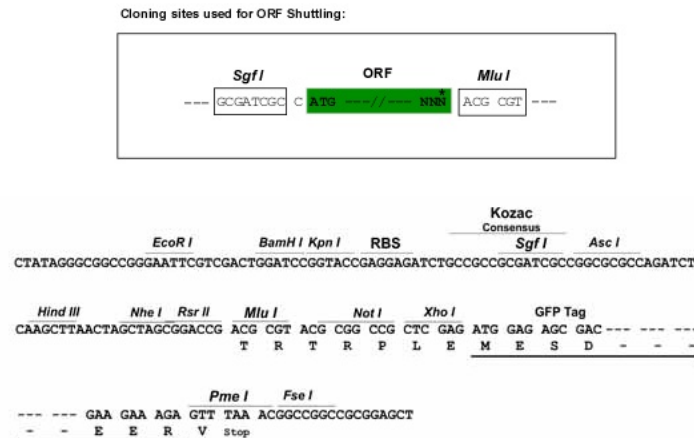
MVVQNSADAGDMRAGVQLEPFLHQVGGHMSVMKYDEHTVCKPLVSREQRFYESLPLAMKRFTPQYKGTVT
 VHLWKDSTGHLSLVANPVKESQEPFKVSTESA AVAIWQTLQQTGNSGSDCTLAQWPHAQLARSPKESPA
 KALLRSEPHLNTPAFSLVEDTNGNQVERKSFNPWGLQCHQAHLTRLCSEYPENKRHRFLLLENVVSQYTH
 PCVLDLKMGRQHGDDASEEKKARHMRKCAQSTSACLGVRICGMQVYQTDKKYFLCKDKYYGRKLSVEGF
 RQALYQFLHNGSHLRRELLLEPILHQLRALLSVIRSQSSYRFYSSLLVIYDQEPPEPAPGSPHPHEAPQ
 AAHGSSPGGLTKVDIRMIDFAHTTYKGYWNEHTTYDGPDPGYIFGLENLIRILQDIQEGE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_054111

ORF Size: 1230 bp

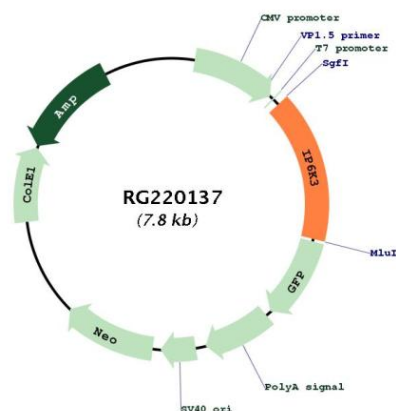
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_054111.2, NP_473452.2</u>
RefSeq Size:	2628 bp
RefSeq ORF:	1233 bp
Locus ID:	117283
UniProt ID:	<u>Q96PC2</u>
Cytogenetics:	6p21.31
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. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Dec 2008]

Product images:



Circular map for RG220137