

Product datasheet for RG228031

OriGene Technologies, Inc.

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Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001146178) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_001146178) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: IP6K2

Synonyms: IHPK2; InsP6K2; PIUS

Mammalian Cell Neomycin

Selection:

recorrigen

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG228031 representing NM_001146178
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGCAGCCACCAGCATGGTGGGGTCTTTGTTGGGGAGTGGGGGAGTCTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228031 representing NM_001146178

Red=Cloning site Green=Tags(s)

MSPAFRAMDVEPRAKGVLLEPFVHQVGGHSCVLRFNETTLCKPLVPREHQFYETLPAEMRKFTPQYKGDI

SSHQHGGVFVGEWGSLL

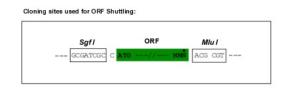
TRTRPLE - GFP Tag - V

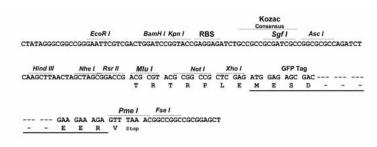
Restriction Sites: Sgfl-Mlul



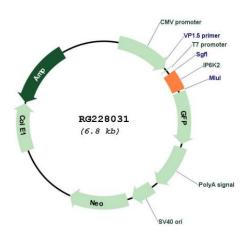


Cloning Scheme:





Plasmid Map:



ACCN: NM 001146178

ORF Size: 261 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



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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: <u>NM 001146178.2</u>, <u>NP 001139650.1</u>

RefSeq Size: 1324 bp
RefSeq ORF: 264 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]