

Product datasheet for **SC324061**

Inositol Hexakisphosphate Kinase 2 (IP6K2) (NM_016291) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Inositol Hexakisphosphate Kinase 2
Synonyms:	IHPK2; InsP6K2; PIUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:	>OriGene sequence for NM_016291.2 AGAGAAACAATAGGACGGAACGCCGAGGAACCCGGCTGAGGCGGCAGCAGAGCATCCTG GCCAGAAACAGCAAGGAGCAAGACGAGAGGGACACACGGACAACAACAGACAGAAGA CGTACTGGCCGCTGGACTCCGCTGCCTCCCCATCTCCCCGCCATCTGCGCCCGGAGGAT GAGCCCAGCCTTCAGGGCCATGGATGTGGAGCCCGCGCCAAAGGCGTCCTTCTGGAGCC CTTTGTCCACCAGGTGCGGGGGCACTCATGCGTGCTCCGCTTCAATGAGACAACCTGTG CAAGCCCTTGGTCCCAAGGGAACATCAGTTCTACGAGACCCTCCCTGCTGAGATGCGCAA ATTCAGTCCCCAGTACAAAGGTGTGGTATCTGTGCGCTTTGAAGAAGATGAAGACAGGAA CTTGTGTCTAATAGCATATCCATTGAAAGGGGACCATGGAATTGTGGACATTGTAGATAA TTCAGACTGTGAACCAAAAAGTAAGCTCCTAAGGTGGACAACAAAAAACATCATGT CTTAGAAACAGAAAAGACCCCTAAGGACTGGGTGCGTCAGCACCCGTAAAGAGGAGAAAA GAAGAGCCATAAGTTAGAAGAAGAAATTTGAGTGGCTAAAGAAATCTGAAGTCTTGTA CACTGTAGAGAAGAAGTGGAAATATAAGTTCCAGCTTAAACACTATAACCCTTGGAGCAT GAAATGTCACCAGCAACAGTTACAGAGAATGAAGGAGAATGCAAAGCATCGGAACAGTA CAAAATTTATCTTACTGGAACCTGACTTCCCGCTACGAGGTGCCTTGTGTCCTTGACCT CAAGATGGGCACACGACAACATGGTGATGATGCTTCAGAGGAGAAGGCAGCCAACAGAT CCGAAAATGTCAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGTGTGGCATGCAGGT GTACCAAGCAGGCAAGTGGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGTATC GGTGCAGGGCTTCAAGGAGGCACTTTTCCAGTTCTTCCACAATGGGCGGTACCTGCGCCG TGAACCTCTGGCCCTGTGCTCAAGAAGCTGACTGAGCTCAAGGCAGTGTGGAGCGACA GGAGTCCCTACCGCTTCTACTCAAGCTCCCTGCTGGTCATTTATGATGGCAAGGAGCGGCC CGAAGTGGTCTGGAAGTCAAGTGTGAGGATTTGGAGGACCTGTGAGGAATCAGCTGA TGAGTCTGCTGGTGCCTATGCCTACAAACCATCGGCGCCAGCTCTGTAGATGTGCGCAT GATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACACCGTGGTGCATGAGGG CCAGGATGTGGCTATATCTTCGGGCTCCAGAGCCTGATAGACATTGTGACAGAGATAAG TGAGGAGAGTGGGGAGTGAAGCTTGTAGCTGCTCCAGTACTTGAGAGCGACTCTGTGTCC CAGGCACAGCTGTGCTGCGTCAGGGAGGAAGCCAGTATGGCCAGGTGGTGGCTCCTGCAG CCTGGAGCTGATGTGAGTGGCCTCTGTGAGCCCCAGCCTGAGCCAGTCCCAGCTGTGCT TGGAGTCTTTATTTATTTTAACTATTTCTTCAACATTCACATTTGATGATGATACCTCT TTCTTCCCTGAGTGTATATGTTCTAATAACAATCTTTTGTATTGTAAAAA AAA
Restriction Sites:	ECorI-NOT
ACCN:	NM_016291
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_016291.2, NP_057375.2</u>
RefSeq Size:	1812 bp
RefSeq ORF:	1281 bp
Locus ID:	51447
UniProt ID:	<u>Q9UHH9</u>
Cytogenetics:	3p21.31
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 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] Transcript Variant: This variant (1) encodes the longest isoform (α). Variants 1 and 2 encode the same isoform (α).