

## Product datasheet for **SC323759**

### ITPK1 (NM\_014216) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITPK1 (NM_014216) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITPK1
Synonyms:	ITRPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014216.3  
GGCCGAGGAGGAAGTGGCGGCGGGGACTGCGCGCCCCAGCTCCGATCCCCGT  
TCCGCGTCCCCGCCGGGAGGAGGTGCCACTCGCTCGCGGCGCGCGGCCGCCAG  
ACTCGGCCTGTGGCGATTTCTCCGGACCCAGGCTCCCCGCCGAGGAGGAAGATGCAG  
ACTTTTCTGAAAGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTG  
AATTTCCAGGCCCTTCGCGAGCTGTGCAGGAAGCGAGGGATGGAGTTGTGCAGTGAAC  
CTTAGCCGGCCGATCGAGGAGCAGGGCCCCCTGGACGTCATCATCCACAAGCTGACTGAC  
GTCATCCTTGAAGCCGACCAGAATGATAGCCAGTCCCTGGAGCTGGTGCACAGGTTCCAG  
GAGTACATCGATGCCACCCTGAGACCATCGTCTGGACCCGCTCCCTGCCATCAGAACC  
CTGCTTGACCGCTCCAAGTCTATGAGCTCATCCGGAAGATTGAGGCCTACATGGAAGAC  
GACAGGATCTGCTCGCCACCCTTCATGGAGCTCACGAGCCTGTGCGGGGATGACACCATG  
CGGCTGCTGGAGAAGAACGGCTTGACTTTCCATTCAATTTGCAAACAGAGTGGCTCAT  
GGCACCAACTCTCACGAGATGGCTATCGTGTTCACCAGGAGGGCCTGAACGCCATCCAG  
CCACCCTGCGTGGTCCAGAATTTTCATCAACCACAACGCCGCTCCTGTACAAGGTGTTGCTG  
GTTGGCGAGTCTACACCGTGGTCCAGAGGCCCTCACTCAAGAACTTCTCCGAGGCACA  
TCAGACCGTGAGTCCATCTTCTCAACAGCCACAACGTGTCAAAGCCGGAGTCTGTCATCG  
GTCCTGACGGAGCTGGACAAGATCGAGGGCGTGTTCGAGCGGCCGAGCGACGAGGTCATC  
CGGGAGCTCTCCCGGGCCCTGCGGCAGGCACTGGCGGTGTCATCTTCGGCATCGACATC  
ATCATCAACAACCAGACAGGGCAGCAGCCGTCATTGACATCAATGCCTTCCAGGCTAC  
GAGGGCGTGAGCGAGTTCTTACAGACCTCCTGAACCACATCGCCACTGTCTGCAGGGC  
CAGAGCACAGCCATGGCAGCCACAGGGGACGTGGCCCTGCTGAGGCACAGCAAGTCTCTG  
GCCGAGCCGGCGGGCGGCTGGTGGGCGAGCGGACATGCAGCGCCAGCCCCGGTCTGCTG  
GGCAGCATGATGGGCCAGGACGCGCCCTGGAAGGCTGAGGCCGACCGGGCGGCACCGCC  
AAGCTGCCGACCCAGAGACTCGGCTGCAACGCCGGCGTGTGCGCCAGCTTCCAGCAGCAT  
TGTGTGGCTCCCTGGCCACCAAGGCTCCTCCAGTAGCCACGGAGCCGGGACCCAGAG  
GGGCAGCGCAGGGCGCAGAGCACACCCGCTGGCCAGCAGCTCCCAACGGCGATGCTACT  
ACTAAGAAATCCCAGTATCTGATTCTTCTGTTTTTAATTTTAACTGATTCTCTGAT



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GTCATGATCTAAATGAGGGGTAGTGGGGATGGAAGAGAGTACCAGGTGGTCCACCGTTG  
 GGGAGTGGGGCCGTCGCTCTACTGTGCAGACCTCTAACTGAGTTACACACG  
 CTTGTGTTTGAACACTAGGTCTGGATGGGAGGTGAGGGGTGTCGTATGGCTGCCATGC  
 CGGTGTCTGTGCACATCCCTGTCTGTTGGTCTCCATGGCCACTGTGGACCGGGACCCTTG  
 GGGGAAGCCTGCCATGTGGGCTGTGGGAGGCTGATCGGTGCATGTGAGAGTGGCTTCC  
 CTTCTGCCTGACTCCCCACTCCCTGACCTGCCCCCTTCTGTTTTTCTCCTACTGGTCT  
 CCACCAAGGCTTTGTTAGCCCCACCCTGCCTGGTGTGCAGCTAACCCCTCCCTCCCCAC  
 AGCCAGAGGAGGCCACAGACCCCTCAGGGGAGTCCGCGCTGGTGTCTGGGCTGTGCTCC  
 CTAATAAGGGAAGGAAAGGAAGCTGGGCGTCTCTGGGCCCCCAACACACGTCCCAT  
 TTAGCCCTGCACAGCGTCTCCTTCCCCTAAGCCAGCACTGCTGCTCCCTGGAGCCCGGG  
 AAGGAGGCTGCCTGGCTGGAGGCCCGAGCCGATGGCGCTGTGCTGAGGATTTGTGCTGT  
 GATTTGGGCAAATCATTCCAGGTCTTTGGGCTCCACCCCTTGTCTCTAGTGGACATTT  
 GAGATCAGAGAGCACACAGGGCTGGCTTTGTGCCCTAACCCCTGGGATGCAGCCTGCCT  
 TTCCATAAAGTCACCTAGGTGAGGATAGGCGGGGAGCCTCGGCATGACACCATGGAGAT  
 CGGGGCCCTTCCCAGTGGGTTCACTCCTTTTACACCTGCTGGGTCCCTCCTACCCA  
 GCAGGCCTGGTCCACCTCTCATTGCAAGCCCAAGCACTGAGCCAGCAGGTGCCAGGGAG  
 CCACCCGCCCCCATCGCTTCTGCACACCTCAGACTCACCCCATCACCTTGGCAGCAAAG  
 CACTGGCTCTGCCGTCTGACCCCTGATCCAGGCAGCCCTCTGCAGAGAAAAGGGTTGG  
 GGAGAAGCCTCTGCAGTCTGGAAGATGTGGGGTGTGGGTGAGAGGCATCAGCCCCAC  
 AAGTATGTTTTTGTGCTTAAGATAGCAGTTTACTTTGAAAAAGTAAAAAGGCTTCCGG  
 GCTGTCTCTGCCAGTGCATGGAGGACGCTAGAGAAAGTGTGAGTGTCCGAGAGAG  
 GCCCCGAGCCAGTGCATGGAGGTCCTTCGGCCTGGCTCAGCTGGGCTGCAGGATGCCCA  
 CTTTGAGGAGGGAGGCACAGGGCTTGGGCGAGGGCAGAGGCCATCAGAAGTCCCGGCT  
 TTTTGGAAACTGAGACCCAACAATAACACGTTTACACGACTTGAGTTTTGAACCC  
 GATTAATGTCTGTACGTACCTTTCCTAGTTCTGACCCTGAGCCCTGGGGAACAGGAAAG  
 CGTGGCTGGCCTTGTCACTGCTTTGTCTCCTAAATAAACTACTGAAATCAAACCGCAA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_014216

**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.

RefSeq:	<a href="#">NM_014216.3</a> , <a href="#">NP_055031.2</a>
RefSeq Size:	3197 bp
RefSeq ORF:	1245 bp
Locus ID:	3705
UniProt ID:	<a href="#">Q13572</a>
Cytogenetics:	14q32.12
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	<p>This gene encodes an enzyme that belongs to the inositol 1,3,4-trisphosphate 5/6-kinase family. This enzyme regulates the synthesis of inositol tetraphosphate, and downstream products, inositol pentakisphosphate and inositol hexakisphosphate. Inositol metabolism plays a role in the development of the neural tube. Disruptions in this gene are thought to be associated with neural tube defects. A pseudogene of this gene has been identified on chromosome X. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform.</p>