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Product datasheet for SC115136

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:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115136 sequence for NM_014216 edited (data generated by NextGen Sequencing)

ATGCAGACCTTTCTGAAAGGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAG
AAGCTGAATTTCCAGGCCTTCGCCGAGCTGTGCAGGAAGCGAGGGATGGAGGTTGTGCAG
CTGAACCTTAGCCGGCCGATCGAGGAGCAGGGCCCCCTGGACGTCATCATCCACAAGCTG
ACTGACGTCATCCTTGAAGCCGACCAGAATGATAGCCAGTCCCTGGAGCTGGTGCACAGG
TTCCAGGAGTACATCGATGCCCACCCTGAGACCATCGTCCTGGACCCGCTCCCTGCCATC
AGAACCCTGCTTGACCGCTCCAAGTCCTATGAGCTCATCCGGAAGATTGAGGCCTACATG
GAAGACGACAGGATCTGCTCGCCACCCTTCATGGAGCTCACGAGCCTGTGCGGGGATGAC
ACCATGCGGCTGCTGGAGAAGAACGGCTTGACTTTCCCATTCATTTGCAAAACCAGAGTG
GCTCATGGCACCAACTCTCACGAGATGGCTATCGTGTTCAACCAGGAGGGCCTGAACGCC
ATCCAGCCACCCTGCGTGGTCCAGAATTTCATCAACCACAACGCCGTCCTGTACAAGGTG
TTCGTGGTTGGCGAGTCCTACACCGTGGTCCAGAGGCCCTCACTCAAGAACTTCTCCGCA
GGCACATCAGACCGTGAGTCCATCTTCTTCAACAGCCACAACGTGTCAAAGCCGGAGTCG
TCATCGGTCCTGACGGAGCTGGACAAGATCGAGGGCGTGTTCGAGCGGCCGAGCGACGAG
GTCATCCGGGAGCTCTCCCGGGCCCTGCGGCAGGCACTGGGCGTGTCACTCTTTGGCATC
GACATCATCATCAACAACCAGACAGGGCAGCACGCCGTCATTGACATCAATGCCTTCCCA
GGCTACGAGGGCGTGAGCGAGTTCTTCACAGACCTCCTGAACCACATCGCCACTGTCCTG
CAGGGCCAGAGCACAGCCATGGCAGCCACAGGGGACGTGGCCCTGCTGAGGCACAGCAAG
CTTCTGGCCGAGCCGGCGGGCGGCCTGGTGGGCGAGCGGACATGCAGCGCCAGCCCCGGC
TGCTGCGGCAGCATGATGGGCCAGGACGCGCCCTGGAAGGCTGAGGCCGACGCGGGCGGC
ACCGCCAAGCTGCCGCACCAGAGACTCGGCTGCAACGCCGGCGTGTCGCCCAGCTTCCAG
CAGCATTGTGTGGCCTCCCTGGCCACCAAGGCCTCCTCCCAGTAG

Clone variation with respect to NM_014216.4
834 c=>t

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014216 unedited
NGGTCAAAATTTGTATACGACTCCTATAGGCGGCNCGCGATTCGGCACGAGGCCGCCGGG
AGGAGGTGCCCACTCGCTCGCGGCGCGCGCCGGCCGCCAGACTCGGCCTGTGGGCGATTT
CCTCCGGACCCAGGCTCCCCGCCCGAGGAGGAAGATGCAGACCTTTCTGAAAGGGAAGAG
AGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTGAATTTCCAGGCCTTCGCCGA
GCTGTGCAGGAAGCGAGGGATGGAGGTTGTGCAGCTGAACCTTAGCCGGCCGATCGAGGA
GCAGGGCCCCCTGGACGTCATCATCCACAAGCTGACTGACGTCATCCTTGAAGCCGACCA
GAATGATAGCCAGTCCCTGGAGCTGGTGCACAGGTTCCAGGAGTACATCGATGCCCACCC
TGAGACCATCGTCCTGGACCCGCTCCCTGCCATCAGAACCCTGCTTGACCGCTCCAAGTC
CTATGAGCTCATCCGGAAGATTGAGGCCTACATGGAAGACGACAGGATCTGCTCGCCACC
CTTCATGGAGCTCACGAGCCTGTGCGGGGATGACACCATGCGGCTGCTGGAGAAGAACGG
CTTGACTTTCCCATTCATTTGCAAAACCAGAGTGGCTCATGGCACCAACTCTCACGAGAT
GGCTATCGTGTTCAACCAGGAGGGCCTGAACGCCATCCAGCCACCCTGCGTGGTCCAGAA
TTTCATCAACCACAACGCCGTCCTGGTACAAGGTGTNCGTGGTTGGCGAGTCCTACACCG
TGGTCCAGAAGCCCTCACTCAAAANCTTCTNCGCAGCACATCAGACCGTGAGTCCATCTT
CTTCACAGCCACCACGTGTCAAGCCGGNAGTCGTCATCGGTCCTGACGGAGCTGGACCAG
ATCNAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014216 unedited
TTGGCCCGCGGCTCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGCGGTTTGATTT
CAGTAGTTTATTTTGGAGACAAAGCAGTGCAAGAGGCCAGCCACGCTTTCCTGTTCCCCA
GGGCTCAGGGTCAGAACTAGGAAAGGTGACGTACAGACATTAATCGGGGTTCAAAACTCA
AGTCGTGTAAACGTGGTTAGTTGTTGGGTCCTCAGTTTCCAAAAAAGCCGGGCAGTTCTG
ATGGCCTCTGCCCCTCGCCCAAGCCCTGTGCCTCCCTCCTCAAAGTGGGCATTCTGCAGC
CCAGCTGAGCCAGGCCGAAGGACCTCCATGCACTGGCTCGGGGGCCTCTCTCGGGACACT
CAGCACTTTCTCTAGCGTCCTCCATCTCACTGGGCAGAGGACAGCCCGGAAGCCTTTTTC
ACCTTTTTCAAAGTAAACTGCTATCTTAAGACACAAAAACATACTTGTGGGGGCTGATGC
CTTTTACCCAGCACCCCACATCTTCCAGGACTGCAGAGGCTTTTCCCCATCCCTTTTCTC
TGTGGAGGGGGCTGCCTGGATCAGGGGTCACACCGCAGACCCCGTGCTTTGCTGCCCAGC
GATGGGGCGAGTCTGAGGTGCGCATACACGATGGGGGGCGGGTGGCTCCCTGGCACCCGC
TGGCTCATTGCCTTGGGCTCGAAATCAGAGCTGGCACCATCCTGTTGGGTGACGCGGGAC
CCATCAGGTCGTGACAAGGATTGCCCCCACTGGGGATCACGGTCCCGATCTCCATGCTGT
TATGCCGAGCTTCTCGCGCTCATTTCCCTTACGTGCCCNTATGTCAAGCAGCCTGCTTCC
ACGGGTTTGGCTACATACCCCCCCTGTGCGCCTTTTGTTACTAAATGGCATTTAAGACCA
AGGGGGGCCCGCCAAAGCCTCGCCCGCTTGTCATATCCCATACCATTTTTCTCCGCCCCT
CCGGCTCGTTTTCATACGCCCTTCTCCCGCTTCCGAGTCCAACG

Restriction Sites: ECoRI-NOT

ACCN: NM_014216

Insert Size: 3090 bp

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).

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:	NM_014216.3, NP_055031.2
RefSeq Size:	3197 bp
RefSeq ORF:	1245 bp
Locus ID:	3705
UniProt ID:	Q13572
Cytogenetics:	14q32.12
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform.