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Product datasheet for SC325066

ITPK1 (NM_001142593) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITPK1 (NM_001142593) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITPK1
Synonyms:	ITRPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC325066 representing NM_001142593.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGACCTTTCTGAAAGGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTGAAT
TTCCAGGCCTTCGCCGAGCTGTGCAGGAAGCGAGGGATGGAGGTTGTGCAGCTGAACCTTAGCCGGCCG
ATCGAGGAGCAGGGCCCCCTGGACGTCATCATCCACAAGCTGACTGACGTCATCCTTGAAGCCGACCAG
AATGATAGCCAGTCCCTGGAGCTGGTGCACAGGTTCCAGGAGTACATCGATGCCCACCCTGAGACCATC
GTCCTGGACCCGCTCCCTGCCATCAGAACCCTGCTTGACCGCTCCAAGTCCTATGAGCTCATCCGGAAG
ATTGAGGCCTACATGGAAGACGACAGGATCTGCTCGCCACCCTTCATGGAGCTCACGAGCCTGTGCGGG
GATGACACCATGCGGCTGCTGGAGAAGAACGGCTTGACTTTCCCATTCATTTGCAAAACCAGAGTGGCT
CATGGCACCAACTCTCACGAGATGGCTATCGTGTTCAACCAGGAGGGCCTGAACGCCATCCAGCCACCC
TGCGTGGTCCAGAATTTCATCAACCACAACGCCGTCCTGTACAAGGTGTTCGTGGTTGGCGAGTCCTAC
ACCGTGGTCCAGAGGCCCTCACTCAAGAACTTCTCCGCAGGCACATCAGACCGTGAGTCCATCTTCTTC
AACAGCCACAACGTGTCAAAGCCGGAGTCGTCATCGGTCCTGACGGAGCTGGACAAGATCGAGGGCGTG
TTCGAGCGGCCGAGCGACGAGGTCATCCGGGAGCTCTCCCGGGCCCTGCGGCAGGCACTGGGCGTGTCA
CTCTTCGGCATCGACATCATCATCAACAACCAGACAGGGCAGCACGCCGTCATTGACATCAATGCCTTC
CCAGGCTACGAGGGCGTGAGCGAGTTCTTCACAGACCTCCTGAACCACATCGCCACTGTCCTGCAGGGC
CAGAGCACAGCCATGGCAGCCACAGGGGACGTGGCCCTGCTGAGGCACAGCAAGCTTCTGGCCGAGCCG
GCGGGCGGCCTGGTGGGCGAGCGGACATGCAGCGCCAGCCCCGGCTGCTGCGGCAGCATGATGGGCCAG
GACGCGCCCTGGAAGGCTGAGGCCGACGCGGGCGGCACCGCCAAGCTGCCGCACCAGAGACTCGGCTGC
AACGCCGGCGTGTCGCCCAGCTTCCAGCAGCATTGTGTGGCCTCCCTGGCCACCAAGGCCTCCTCCCAG
TAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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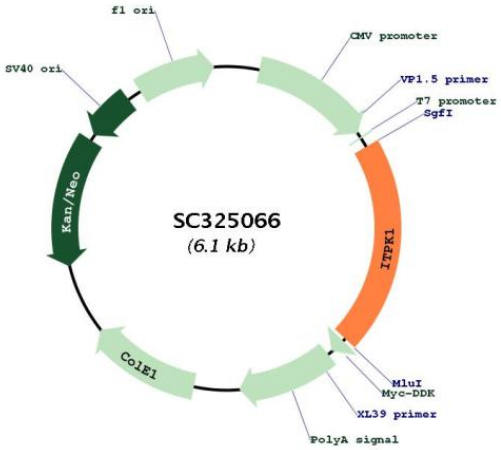
Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001142593

Insert Size: 1245 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).

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: NM_001142593.2

RefSeq Size: 3265 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
MW:	45.6 kDa
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 (2) uses an alternate splice pattern in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).