

Product datasheet for **RC227538**

ITPK1 (NM_001142594) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ITPK1 (NM_001142594) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ITPK1
Synonyms: ITRPK1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC227538 representing NM_001142594
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAGACCTTTCTGAAAGGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTGAATT
TCCAGGCCTTCGCCGAGCTGTGCAGGAAGCGAGGGATGGAGTTGTGCAGCTGAACCTTAGCCGGCCGAT
CGAGGAGCAGGGCCCCCTGGACGTCATCATCCACAAGCTGACTGACGTCATCCTTGAAGCCGACCAGAAT
GATAGCCAGTCCCTGGAGCTGGTGCACAGGTTCCAGGAGTACATCGATGCCACCCTGAGACCATCGTCC
TGGACCCGCTCCCTGCCATCAGAACCCTGCTTGACCGCTCCAAGTCCATGAGCTCATCCGGAAGATTGA
GGCCTACATGGAAGACGACAGGATCTGCTCGCCACCCTTCATGGAGCTCACGAGCCTGTGCGGGGATGAC
ACCATGCGGCTGCTGGAGAAGAACGGCTTGACTTTCCATTCAATTTGCAAACCAGAGTGGCTCATGGCA
CCAACCTCACGAGATGGCTATCGTGTTCAACCAGGAGGGCTGAACGCCATCCAGCCACCCTGCGTGGT
CCAGAATTTATCAACCACAACGCCGCTCCTGTACAAGGTGTTGTTGGTGGCGAGTCTACACCGTGGT
CAGAGGCCCTCACTCAAGAACTTCTCCGAGGCACATCAGACCGTGAGTCCATCTTCTTCAACAGCCACA
ACGTGTCAAAGCCGGAGTCGTATCGGTCTGACGGAGCTGGACAAGATCGAGGGCGTGTTCGAGCGGCC
GAGCGACGAGGTATCCGGGAGCTCTCCGGGCCCTGCGGCAGGCACTGGGCGTGTCACTCTTCGGCATC
GACATCATCAACAACCAGACAGGGCAGCACGCCGTCATTGACATCAATGCCTTCCAGGGGACTGCC
AAGTGTGCTTTATAGAAGGCTGGAAGACCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227538 representing NM_001142594
 Red=Cloning site Green=Tags(s)

MQTF LKGRVGYWLSEKKIKKLNFAELCRKRGMEVVQLNLSRPIEEQGPLDVIHKLTDVILEADQN
 DSQSLELVHRFQEYIDAHPETIVLDPLPAIRTLDRSKSYELIRKIEAYMEDDRICSPPFMELTS CGDD
 TMRLLEKNGLTFPFICKTRVAHGTSHEMAIVFNQEGLNAIQPCVVQNF INHNAVLYKVFVVGESYTVV
 QRPSLKNFSAGTSDRESIFFNSHNVSKEPSSSVLTLDKIEGVFERPSDEVIRELSRALRQALGVSLFGI
 DIIINNQTGQHAVIDINAFPGDCQVCFIEGWKTD

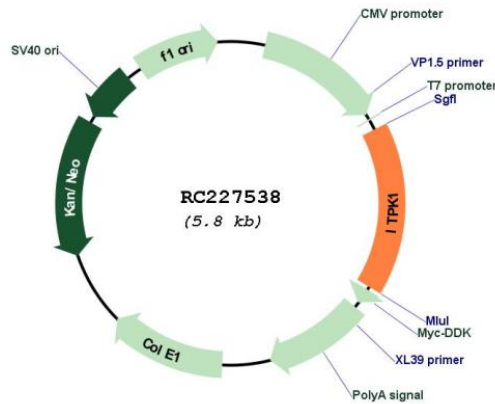
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142594

ORF Size: 942 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
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:	<ol style="list-style-type: none">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_001142594.3
RefSeq ORF:	945 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:	35.5 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]