

Product datasheet for **SC122241**

ITPKB (BC015009) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITPKB (BC015009) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITPKB
Synonyms:	1D-myo-inositol-trisphosphate 3-kinase B; inositol 1,4,5-trisphosphate 3-kinase B; IP3 3-kinase; IP3K; IP3K-B; IP3KB; OTTHUMP00000035705; PIG37; proliferation-inducing protein 37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC015009 edited
CCTCTTTTTGTCTTCCATAGCTTGTGAGAAAATAATTTCTGAGCATTTTACTTTTAAA
GCCATCTCGTCCCTACGAGGTTTGC GCCTCTGGGCATGTAGTCTACACAGGACCTGAGAA
TCTGAGAAACTGCAGCCGCACGGTTGTTTATGGAGCTTTGGGCGGGGGCTGAGCCCGCG
TCGTGCCCCAGCCCGCTGCCAGGCCATGCCGCCCATCTGCGCGGGAGCCCGGGCTG
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CTCCAGCTGGGCGAAAGAGCTAAACTCCATCTCAAAAATAAATAAATAAAAAAAA
AAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC015009 unedited NNAAGTACAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCTCTT TTTTGTCTTCCATAGCTTGTGAGAAAAATAATTTCTGAGCATTTTTACTTTTAAAGCCATC TCGTCCCTACGAGTTTGGCGCTCTGGGCATGTAGTCTACACAGGACCTGAGAATCTGAG AAAGTGCAGCCGACGGTTGTTTATGGAGCTTTGGCGGGGGCTGAGCCCGCGGTCTGTC CCCCAGCCCGCTGCCAGGCCATGCCGCCCATCTGCGCGGGAGCCGCGGTGCCGGGC CTCCGGGGCTGAGCCGGGAGCGCCGGGAGGAGGAGCGCCGCGCGGAGCAGGAGCGGG AGCCGCGGGCGGGCAGCGCGGACCCAGTACTATGGCTGTGTACTGCTATGCGCTCAA TAGCCTGGTGATCATGAATAGCGCCAACGAGATGAAGAGCGGCGCGGCCCGGGGCCAG TGGCAGCGAGACGCCCCGCCCCGAGGAGGGCAGTGCTGAGCCCGGCAGCGTTTTTCAG CCCCAGGAGAGGCGCCTCTTTCCTTCCCGCCAGCCGAGTCTGCTGTCGCCCGAGGAGCC CCGGAGCCCCGGGGCTGGCGGAGCGCCGGCGCAGGCTGAATAGTAGCAGCGCAGTGG CAGCGGCAGCAGCGGCAGTAGCGTGAGCAGCCAAAGTTGGGCTGGTGCCTGCGAGGGGA CCGGCAGCAGGTGGTGGCAGCCGTTACCCTCTCCCGCCAGGGCCGGAGGAGCCCAAGA GAAGCTGCGGATCTTGCAGCGCAGTTGCAGAACGTGCAGGTGAACCAGAAAGTGGGCAT GTTTTGTAGCGCACATCCAGGCACAGAGCTCCGCCATTTACAGCGCCCGCAGCCCGC
Restriction Sites:	Please inquire
ACCN:	BC015009
Insert Size:	3010 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:	<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:	<u>BC015009.1</u> , <u>AAH15009.1</u>
RefSeq Size:	3010 bp
Locus ID:	3707
Cytogenetics:	1q42.12
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary:

The protein encoded by this protein regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P₄. The activity of this encoded protein is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. [provided by RefSeq, Jul 2008]