

Product datasheet for **SC111331**

PI4K2A (NM_018425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI4K2A (NM_018425) Human Untagged Clone
Tag:	Tag Free
Symbol:	PI4K2A
Synonyms:	PI4KII; PIK42A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111331 sequence for NM_018425 edited (data generated by NextGen Sequencing)

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ATGGACGAGACGAGCCCACTAGTGTCCCCGAGCGGGCCCAACCCCGGACTACACCTTC
CCGTCGGGCTCGGGCGCTCACTTTCGCGAGGTGCCCGGGGGCGCGGTCCGAGTGGNNNN
NNNNNNNGCTCGGGCCCTCTCCGCCGGGCTCGCCGGGCCACGACCGCGAGCGGCAGCCA
CTGTTGGATCGGGCCCGGGGCGGGCCAGGGCCAGACCCAAACCGTGGCGGGCAG
GCCCAGGCTCTGGCCGCTCAGGCCGCGGGCGGACGCCACGCCGCTCAGGCCACCCGCGAG
CGGAACGAGTTCGCGGAGGATCCTGAGTTCGAGGCGGTGGTGGCGCAGGCCGAGCTGGCC
ATCGAGCGCTGCATCTTCCCGAGCGCATCTACCAGGGCTCCAGCGGAAGCTACTTCGTC
AAGGACCCTCAGGGGAGGATCATTGCTGTCTTCAAACCAAGAATGAAGAGCCCTATGGG
CATCTTAATCCTAAGTGGACCAAGTGGCTGCAGAAGCTGTGCTGTCTTGTGCTTTGGC
CGTGACTGCCTTGTCTTAACCAGGGCTATCTCTCAGAAGCAGGGGCCAGCCTGGTGGAC
CAAAAACCTGGAACCAACATTGTTCCCGTACAAAGGTAGTATACCTGGCCAGTGAGACC
TTCAACTATAGTGCCATTGACCGAGTGAAGTCCAGGGGCAAGCGGCTTGCCTAGAGAAA
GTGCCAAAAGTTGACAGCGGTTTAACCGCATCGGGCTACCACCAAGGTTGGTTTATTTC
CAGCTCTTTGTTGAAGGCTACAAAGATGCAGACTATTGGCTGCGCGTTTTGAAGCAGAA
CCTCTTCTGAGAACACTAACCGCAACTACTGCTCCAGTTTGAAGCGGTTGGTGGTGTG
GATTACATCATCCGCAACACTGATCGAGGCAATGACAACCTGGCTGATTAATATGACTGT
CCAATGGATAGTTCTAGCTCTCGGGACACAGACTGGTGGTGGTGAAGGAGCCTGTTATC
AAGGTGGCTGCCATAGACAATGGGCTGGCTTCCCACTGAAGCATCCTGACTCCTGGAGG
GCATATCCTTTTTACTGGGCTGGTTGCCCGAGCGAAAGTCCCATTTTCTCAGGAGATC
AAAGATCTGATCCTTCAAAGATATCGGACCCTAACTTCGTCAGGACTTGAAGAGGAC
CTATATGAACCTTCAAGAAAGATCCTGGTTTTGACAGGGGCCAGTTCCATAAGCAGATT
GCTGTGATGCGGGCCAGATCTTAAATCTGACCCAGGCTTGAAGACAACAAGATCC
CTGCACCTCGTCCAGATGCCACCTGTGATTGTCGAGACGNNCGTCCCAACAGCGGTCT
TCTAGCGAGTCTACACACAGAGCTTTCAGAGCCGGAAGCCCTTCTTTTCATGGTGGTAG
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Clone variation with respect to NM_018425.2
 116 c=>n;117 g=>n;118 g=>n;119 c=>n;120 g=>n;121 g=>n;122 c=>n;123 g=>n;124 g=>n;125 c=>n;126 c=>n;127 g=>n;147 a=>g;1361 c=>n;1362 c=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_018425 unedited
TAACCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC
AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
AATTCGGCAGGAGGGCCGGTCCCGGAGCCGGCTGTCTGAGGGATGGACGAGACGAGCCC
ACTAGTGTCCCCGAGCGGGCCCAACCCCGGACTACACCTTCCCGTCCGGCTCGGGGCC
TCACTTTCCGCAAGTGCCCGGGGCGCGGTCCGAGTGGCGGCGGGCGGCTCGGGCCC
CTCTCCGCCGGGCTCGCCGGGCCACGACCGCGAGCGGCAGCCACTGTTGGATCGGGCCCG
GGCGCGGCGGCCAGGGCCAGACCCAAACCGTGGCGGCGCAGGCCAGGCTCTGGCCGC
TCAGGCCGCGGGCAGCCACGCCGCTCAGGCCACCGCGAGCGGAACGAGTTCGCCGA
GGATCCTGAGTTCGAGGCGGTGGTGCAGGAGCCGAGCTGGCCATCGAGCGCTGCATCTT
TCCCGAGCGCATCTACCAGGGCTCCAGCGGAAGCTACTTCGTCAGGACCCTCAGGGGAG
GATCATTGCTGTCTTCAAACCAAGAATGAAGAGCCCTATGGGCATCTTAATCCTAAGTG
GACCAAGTGGCTGCAGAAGCTGTGCTGTCTTGTGCTGNCCTGGGCGTGACTGCCTTTGTCT
TAACCAGGGCTATCTCTCAGAAGCAGGGGCCAGCCTGGTGGACCAAAAACCTGGGACTCAA
CATTGTTCCCGTACAAGGTAGTATACCTGGCCAGTGAGACCTTACTATAGTGCCCTTG
ACCGAATGAAGCCAAGGGCAAGGCGCTTGCCTAGAAAGTGGCCAAAAGTTGGGACGGC
GGTTTACCCGCATCGGGTACCACAAAAGGTTGGTTCAATCCAGCTCTTGGTTGGAGGT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018425 unedited NGGGGCCGGTAAAGCTATGNNACCGCGCCGCAANCTANGATCGAGTTTTTTTTTTTTTTTT TTTTAGAACTGTATTTGTTATTCATACATTTGCGTTGATTTAAATACATTACGTACAATT TCTACATTGGATTAGAAGAATGACACAGGGGGCAGCAACTCTCGCAGCCCAGCCTCCA TTCCCTGACACTGGAGGCAGGGCCTATGGCTGGCAGAGGGACGGTGTCCATGAGTGCCA CTCAGAAGCCTCCCCCGCATTCTGGGCCCTGGCTCTTCCAGAGTCCACATTCAAGGCA ACCTGAGCACAGGCTTGAGGGAGAGTGGAGAAAGGCCAGGAAAGGATGCCACACTCTTG CCTGCCAGGCCAGGACCAGCTCTCTCTACACTGGACCAATTTCCCTTCTGATCACAGA GCTGGTCTGGATCAAGACAATGTGGAGATCTGGTGTGGAGGCTGTGGCCAGGTGAGGCAG CCGGGCTCCCCTGTTAGACCACCAGGCTCTTTTTGAGCACCCGATGGGGCCTTTACCCAC CGGTTTGGGCTAAAAAGGCTTACGGGAGCTTGCACACCTGGGGCCCTTCCGGGCTCTG CCGTGCAGGGCAATGGGTCCTTCAACATTTGCCCCCAATGCCTTGTCCGCGCGCCCT CCTGGTATTTGCTGGGCTTGTCATTTTGGGCCCGCCGCGCACCCGTACCTTCGTAGGT GGGATTCCACGGCGGCTCTAGAAACCCCTCCCGCCAACCGTGAACCGGTGGGACAGG CGGAGTTTGGGGCCGGACTGGGAGGGGGCCGGTGGGTACCCGCGTGGCACCGCACCCGCG CCCCCACCCTCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_018425
Insert Size:	4000 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>NM_018425.2</u> , <u>NP_060895.1</u>
RefSeq Size:	4185 bp
RefSeq ORF:	1440 bp
Locus ID:	55361
UniProt ID:	<u>Q9BTU6</u>
Cytogenetics:	10q24.2
Domains:	PI3_PI4_kinase
Protein Families:	Druggable Genome

Gene Summary:

Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]).[supplied by OMIM, Mar 2008]