

Product datasheet for **SC100911**

PIK3AP1 (NM_152309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIK3AP1 (NM_152309) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIK3AP1
Synonyms:	BCAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_152309, the custom clone sequence may differ by one or more nucleotides

```
ATGGCAGCCTCAGGGGTGCCAGAGGATGCGACATCCTCATCGTCTACAGCCGGATGCCGAGGAATGGT
GCCAGTACCTGCAGACCCTGTTCTGTCCAGTCGGCAGGTCGCCAGCCAGAAGATACTGACTCACAGGCT
GGGCCCCGAGGCCTCCTTCTCGGCAGAGGACCTAAGCCTTTTCTCAGCACCCGCTGTGTGGTGGTGTG
CTGTCCGCGGAGCTGGTGCAGCACTTCCACAAGCCCGCCTTGCTGCCCTGCTGCAGAGAGCTTTCCATC
CTCCGCACCGCTGGTCAAGGCTGCTCTGCGGCGTGCAGGACAGCGAGGAGTTCTAGACTCTTTCCAGA
TTGGGCCATTGGCAGGAGCTCACCTGTGACGATGAGCCAGAGACCTACGTGGCAGCTGTGAAAAAGCC
ATTTCCGAAGATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGTTGTTTCTACT
CGAAGCAGCAGAACCTGCCGACGGTGACTTACCTGGAACTGATGGTGGTGCAGCCGGACCGCATTTCG
CTGTGGGGCAGAAACCACTGTCTATGTTATTGTGAGATGTAAGCTGGATGACAGGGTGGCAGACAAGCA
GAGTTTTCTCCTGAGGATTCTCCCTCTGTAAGGATGGAAGCCAAGGTGGAGAATGAGTACACCATTTAG
TGAAGGCTCCCAACCTTTTCTGGAAGCTTTTCTGAAAGATATATTCTGGAGACTTAGTGGTGTGTGA
AACCGTTATCAGCTATTATACTGACATGGAAGAAATTGGGAATTTATTGTCCAATGCCGGAATCCTGTG
GAATTCATGTGTGAGGCCTTTAAAATTGTGCCCTACAACACAGAGACCCTTGATAAACTGCTAACCGAAT
CCCTGAAGAACAATATCCCTGCAAGCGGACTGCACCTCTTTGGAATCAACCAGCTGGAAGAAGAAGATAT
GATGACAAATCAGAGGGATGAAGAGCTGCCACCCTGTTGCATTTTGTGCGAAGTATGGACTGAAGAAC
CTCACTGCCTTGTGCTCACCTGCCAGGAGCCCTGCAGGCGTACAGCGTGGCCAACAAGCATGGCCACT
ACCCCAACACCATCGCTGAGAAACACGGCTTCAAGGACCTGCGGCAGTTCATCGACGAGTATGTGAAAC
GGTGGACATGCTCAAGAGTCACATTAAGAGGAACTGATGCACGGGGAGGAGGCTGATGCTGTGTACGAG
TCCATGGCCACCTTTCCACAGACCTGCTTATGAAATGCTCGCTCAACCCCGCTGTGACGAGGATCTCT
ATGAGTCCATGGCTGCCTTTGTCCAGCTGCCACTGAAGACCTCTATGTTGAAATGCTTCAGGCCAGTAC
ATCTAACCCAATCCCTGGAGATGGTTTCTCTCGGGCCACTAAGGACTCTATGATCCGCAAGTTTTAGAA
GGCAACAGCATGGGAATGACCAATCTGGAGAGAGATCAGTGCCATCTTGGTCAGGAAGAAGATGTTTATC
ACACGGTGGATGACGATGAGGCCTTTTCTGTGGACCTGGCCAGCAGGCCCTGTCCAGTGCCAGACC
AGAGACCACTGCTCCTGGTGTCAACCAGCTGCCTGACAACGAACCATAACATTTTTAAAGTTTTTGCAGAA
AAAAGTCAAGAGCGCCTGGGAATTTCTACGTTTCTCAGAGAGCATCAGGAAAGGGCCGCCGTCAGAC
CATGGAGGGACAGGCCAGTCGAGTATATATGACCCTTTTGCAGGAATGAAAACGCCAGGCCAGCGGCA
GCTTATACCCCTCCAGGAGCAGGTGAAGCTGGGCATTGTCAACGTGGATGAGGCTGTGCTCCACTTCAA
GAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCCTTTGTTTTCCAGCAGGAAAATCTTAAACGGCTAA
GAGACAGCATCACCCGAAGACAGAGAGAGAAGCAAAAATCAGGAAAGCAGACAGACTGGAGATCACGGT
CCCAATTCGGCACTCACAGCACCTGCCTGCAAAAGTGGAGTTTGGAGTCTATGAGAGTGGCCCCAGGAAA
AGTGTCAATCCCCCTAGGACGGAGCTGAGACGAGGAGACTGGAAAACAGACAGCACCTCCAGCACAGCAA
GTAGCACAAAGTAACCGCTCCAGCACCCGGAGCCTCCTCAGTGTGAGCAGCGGGATGGAAGGGGACAACGA
GGATAATGAAGTCCCTGAGGTTACCAGAAGTCGAGTCCAGGCCCCCAAGTGGATGGGACACCCACC
ATGTCCCTCGAGAGACCCCCAGGGTGCCTCCGAGAGCTGCCTCACAGAGGCCTCCGACCAGGGAGACCT
TCCATCCTCCTCACCTGTTCCACCCAGAGGACGCTGA
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152309 unedited
 GCGGCCCGCAATTTCGCACGAGGGTACTGAACCTCCGGGAGCTTTTGTCTCTGTGGAAG
 CCTGAGCAAGGGGTGCCAGAGGATGCGACATCCTCATCGTCTACAGCCCGGATGCCGAG
 GAATGGTGCCAGTACCTGCAGACCCTGTTCTGTCCAGTCCGCGAGTCCGAGCCAGAAG
 AACTGACTCACAGGCTGGGCCCCGAGGCCCTCTTCTCGGCAGAGGACCTAAGCCTTTTC
 CTCAGCACCCGCTGTGTCTGTGGTGTCTGTCCGCGGAGCTGGTGCAGCACTTCCACAAG
 CCTCCTTGCTGCCCTGCTGCAGAGAGCTTTCCATCCTCCGACCCGCGTGGTCCAGGCTG
 CTCTGCGCGTGCAGGACAGCGAGGAGTTCCTAGACTTCTTTCCAGATTGGGCCATTGG
 CAGGAGCTCACCTGTGACGATGAGCCAGAGACCTACGTGGCAGCTGTGAAAAAGCCATT
 TCCGAAGATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGTTGTT
 TCCTACTCGAAGCAGCAGAACCTGCCGACGGTACTTACCTGNGAACCTGATGGGTGGT
 GCAGCCGACCGCATTGCTGTGGGGCAGAACTGCTATGTTATTGTGAGATGTAA
 GCTGGATGACAGGGTGGCGACAGAAGCAGAGTTTTCTCCTGGAGATTCTCCCTCTGTAAG
 GATGGGAGCCAAGGTGGGANAATGAGTACACCATTTCAAGTGAAGGCTCCCAACCTTTCA
 TTGNGGNAACGTTTCTCTGAAGAATATTCTGGAGACTTAAGGGGGGTGAAACCGTATCA
 GCTTTTACTGACATGGAAGAATTGGGNAATTTATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152309 unedited
 GGTACACTATGNACCGCGCCGATTCTAGNGATCGTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTCATCCAGATTATTTTCTTTTACATATAACCAACCATTTTGGATG
 TAAAGGAACAACCAAGTGAAGGCTTAAATCTGCTGCTTTTACTTGGCACTCCTGATCA
 GTTCCATCCGTGTCTCAAGTGTATCACATTCACGAGACAAGGCTTCTCATCAGCAATTC
 AATTTTATGTTTTCTACTTATTTTATATAAGAATACAATGCACCAAAATATTATATAT
 TGCACAAACAGTGTGATGATACAAAGATGCTAACAACATTGGCTGGTAATAGGCTTTAC
 CATGTTATGATCTAAATGCTTGTTCATCAAAAATGTACAAAATCTAAGTTTGGCATCC
 AAAAGGGGGCTTACAGTTATTGAATTTTTTCCAGCCCTATTTTAAATCAAATCAAGT
 TTGCCTATGACAAAGACTGTCTATAAGTAAACAGGGCAAGCATACCAACATCAAATTTAT
 CTTCTTCTTATCTCACGTGCCCTATTTCTCCAAATAAGTGACAAGGAGAGTAAAGGA
 TCACTGAGGGAACATTTGAAGAATGCTACTAAGTGCCAGGCTCCTGTACAAGGTAATTA
 TACTCAAAACACTCTCGTATGGACATGGCCAATAGTGTATTTTGTCAAAAACAAAAACA
 AACCCNAGATTCCAGAGCTGTTTCTGACAAGAAGTCTGTTTCAGTACTTTTCAAGTATGA
 GTCCTACTTGGCGGACTGAAGAATGAAATTGAGAAAGAACCTTTATCTTTAGAAAAGAC
 CCAATAAACTTACTTAATGGGTCATTAATGTGGATTTTTTACTTCGGGGGGATAGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_152309

Insert Size:

4700 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:	NM_152309.2 , NP_689522.2
RefSeq Size:	4817 bp
RefSeq ORF:	2418 bp
Locus ID:	118788
UniProt ID:	Q6ZUJ8
Cytogenetics:	10q24.1
Protein Families:	Druggable Genome
Protein Pathways:	B cell receptor signaling pathway
Gene Summary:	Signaling adapter that contributes to B-cell development by linking B-cell receptor (BCR) signaling to the phosphoinositide 3-kinase (PI3K)-Akt signaling pathway. Has a complementary role to the BCR coreceptor CD19, coupling BCR and PI3K activation by providing a docking site for the PI3K subunit PIK3R1. Alternatively, links Toll-like receptor (TLR) signaling to PI3K activation, a process preventing excessive inflammatory cytokine production. Also involved in the activation of PI3K in natural killer cells. May be involved in the survival of mature B-cells via activation of REL.[UniProtKB/Swiss-Prot Function]