

Product datasheet for **SC127628**

PI 3 Kinase Class 3 (PIK3C3) (AK022653) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI 3 Kinase Class 3 (PIK3C3) (AK022653) Human Untagged Clone
Tag:	Tag Free
Symbol:	PI 3 Kinase Class 3
Synonyms:	hVps34; VPS34; Vps34
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK022653, the custom clone sequence may differ by one or more nucleotides

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TTATATTTAAGCATGGAGATGATTTACGTCAAGATCAACTTATTCTTCAAATCATTTCACTCATGGACAA
GCTGTTACGGAAGAAAATCTGGACTTGAAATTGACACCTTATAAGGTGTTAGCCACCAGTACAAAACAT
GGCTTCATGCAGTTTATCCAGTCAGTTCCTGTGGCTGAAGTTCTTGATACAGAGGAAGCATTCAGAACT
TTTTTAGAAAATATGCACCAAGTGAGAATGGGCCAAATGGGATTAGTGCTGAGGTCATGGACACTTACGT
TAAAAGCTGTGCTGGATATTGCGTGATCACCTATACTTGAGATTGGAGACAGGCACCTGGATAACCTT
TTGCTAACAAAAACAGGTAACAATTAATGACTACCAGTAGACATACATTGTATATGTCCATGGTTTTTAC
CCCTGAATCTATGTAATAACAAGATAAGTTGCGGCCTGGCGCGGTGGCTCACGCCGTAATCCCAGCACT
TTGGGAGGCCAAGACGGGTGGATCACCTGAGGTTGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAAC
CCCGTCTCTACTAAACACACAAAATTTGCCGGCGTGGTGGTACATGCCTGTAATCCCACTACTCAGGA
GGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGCACCATTGCAC
TGCAGACTAGGCAACAAGATCAAAACGCCATCTTAGAAAAAAAAAAAAAAAAAAGATGAGTTGCGTAATT
GAAGATAAATCAGAGAGTCTTAAAAATTCCTTAAATGTTACCTTGAAGAACATTTAGGGAAAAGTCCTT
TCCTTTTAAAGAATTGCTTGTAGTAAATCCTACAGATGGTCATTTTGCCACACTTCTGTACTGGAAAA
TGCTCTTTTTATGGAAGCCAATAATGGATACAAGTAGCTTAGTCTTACTGTATAGCTCTAGTTAGA
TTGTTAAATGTCCTTCTCTTACAAAGTGTGCTTAATCACTTAAATATCTACCTTAAATTATTGCTT
TTCCCCTTGGAGTTCATGGGATAATCATTCTCAGTCCCCTTTGCTCTGACAACCTTTTAGCCCTATGTA
TTATCTTTATGCAGACAGCTCCAGACTTACAGCTTTTACCTCAGTCCATTTCACTTAACTTCAAATTG
AAATATCGAACTGCTTACTTGAATTGTCATTATATATGGCCAGTTGAAAAGGTTGCTTTTCTCTAC
TACCTGCCTAAAACCTGTTTCTCACCTCATTTTTCCATTTCAATAGATAGCAACATCACCTACCCAGTTG
TTCAAGCTCTAGACCTCAAAGTCATTCTTAACATGTCTCTTGGCCTCATCTCATATACTGAACCTATTAG
CAAATCTGTCTACTCCTCAACTCCAAAATAGATCATGAAGTTACCCACTGTCTTCATTTTACTACTTT
GACCCCACTTGAAGCAAACAATATATGTTGCCTAAACAATTTGAATGAAACCTGAACCTTTATTGGGGC
CTTGTTGGCTTGTCCAGGCAGGCCATTTGTCTGAATGTCAAACCACTCCTGCCTCAGACAAGAGCCTTTGT
TGTTTTCTTTCTGGAAGTTATTTATTCAGATCTTGCAGGGCTGACTTTAGTTATTAAGTTGAAGTT
CTAATGGCATCTTTAGAGAAGCCCTTCTAACTCCTTGATCTGTAATAACATATCTGCCCTCTCCTC
CAATGCTCTACTTATTACTGTATTGTTATAGCACTTATCACTAGCTGAAGTTACCTTTTTTGTTTAA
TTCAACAACATTTATTGAACAGCTAGTAGATGCTGGGAATACCAAAGTTAACAGAAGAGACAGAAATCC
TTGCTCTCCTAGAGCTTGTGAGTCTTATCATCATCTTCTCCCCTTACAGGATGCAAGTTCCATGAGAGC
AGGAACCTTTGTCCATTGGGGTTACCCCATGCCTCTGGACCTTGAACCCACCTAGCTAAAGTGTTCAA
TAAATCAGTGTGAATTAATGATGAATAAATACTTCTGCTCTTC
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3' Read Nucleotide Sequence:	>OriGene 3' read for AK022653 unedited GTACCAAGCCGCAATCNANAGTCGAGTTTTTTTTTTTTTTTTTTTAAAAGGCGTTTTGAT CTTGTTGCTAGTCTGCAGTGCAATGGTGCAATCTCGGCTCACTGCAACCTCCGCCTCCC GGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGTTGGGATTACAGGCATGTACCA CCACGCCCGGCAAATTTGTGTGTTTATTTATACGGGGTTTCTCCATGTTGGTCAGGCT GGTCTCGAAGTCCCAACCTCAGGTGATCCACCCGCCTTGGCCTCCCAAAGTGTGGGATT ACGGGCGTGAGCCACCGCGCCAGGCCCAACTTATCTTGTAGTACATAGATTACAGGGGT AAAAACCATGGGCATATACAATGTATGTCTACTGGTAGTCATTAATTGTTACCTGTTTT GTTAGCAAAGGTTATCCAGGTGCTCTCCAACCTCCAAGTATATAGGTGATCACGCAA TATCCAGCACAGCTTTTAAAGTAAAGTGTCCATGACCTCAGCACTAATCCCATTGGCCCA TTCTCACTGGTGCATATTTCTAAAAAAGTTCTGAATGCTTCCCTCTGTATCAAGAACT TCAGCCACAGGAAGTACTGATGATAAACTGCATGAAGCCATGTTTTGACTGGTGGCTAAC ACCTTATAAGGTGCAATTTCAAGTCCAGATTTCTTTCCGTAACACCTTGCCATGAGT GAAATGATTTGAAGAATAAGTTGATCTTGACGTAATCATCTCCATGCTTAAATATAACT GGATATTTGCCTCCATCTCCGCTTANAAAACAAGTGCAGGCATAAAGGCACTCTTA AACAGTGTAGCTTGTCCCGGAATATTCTCTAATTNTCACTTGGGGTTTCTAAAGGCAA CGGGATAAGTCCCACATCTGACAAATTATCTTT
Restriction Sites:	NotI-NotI
ACCN:	AK022653
Insert Size:	2840 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:	AK022653.1
RefSeq Size:	2074 bp
RefSeq ORF:	2074 bp
Locus ID:	5289
Cytogenetics:	18q12.3
Domains:	PI3_PI4_kinase
Protein Families:	Druggable Genome

Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of autophagy
Gene Summary:	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity).[UniProtKB/Swiss-Prot Function]