

Product datasheet for **SC100382**

PI 3 Kinase regulatory subunit 4 (PIK3R4) (NM_014602) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI 3 Kinase regulatory subunit 4 (PIK3R4) (NM_014602) Human Untagged Clone
Tag:	Tag Free
Symbol:	PI 3 Kinase regulatory subunit 4
Synonyms:	p150; VPS15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014602 edited
 CGCGAATTCGGCAGGAGGTTGCTTTCCCGGGAGTTCGGCGTTTCTGGGGCTGCAGCAG
 CTGAAGTGTAGTGTCTTTCTGGGACTGGCGGTCTGCACCTCTCTCCCGGGTCCATCTCC
 CCCGCCCCGGTGGTGAGGCCCTCGAGGAGGGCTCGGACGGGTGTAGCGATCCGCGCTAGA
 GGAAGACGAGGCCCGGGAACGCATGTCCCCAGGGCAGGTTAGGGGGCTGGAGGGGTCAA
 ATCCCGGGTACTTGTGGAGACTCTTAGCGTGGCTTCTCTCTCTGCTGAGACCCCGAG
 AGCTTTCCAGTTCTCTCCAGGACCACCGGGTTCCTGAAGATCGGGACTTTTCTGCG
 CCCCTCCACCAACAGCCCATCTCTGTCTATGAAGAAAGACCCTTCGTAGAAACAACCTC
 CCCGCTGCTGACGCGTTTTCCCGTCCCGTCCCGAAGTAGTCTACTATGACCTCGTTGTG
 AGCCTCTGAACGATTTTACACTTTCCCGAGGCCTAGGGTATTATATCCTAACCTTACTA
 AAGACCACAGAGGTGCTTGCCATTATGGGAAATCAGCTTGCTGGCATTGCTCCCTCCCAG
 ATCCTTTCTGTAGAGAGTATTTTTTCAGATATTATGACTTTGAATATGATAAAAGCCTG
 GGGAGTACTCGGTTTTTAAAGTTGCTCGAGCCAAGCACCGAGAAGGCCTGGTCGTTGTG
 AAGGTTTTTGCAATTCAGGATCCACATTGCTTTAACCGACTATAAACAAGAGCTGGAG
 GAACTGAAAATCAGGCTTAATTCTGCACAGAATTGCTACCTTTCCAGAAAGCATCAGAA
 AAAGCATCTGAGAAAGCAGCTATGCTCTTAGGCAGTATGTGCGAGACAATCTCTATGAT
 CGCATCAGTACCCGTCATTCTTGAATAACATTGAGAAGCGCTGGATTGCTTTCCAGATC
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 AATGTGATGGTCACCGATTGGAATTGGGTTCTTCTAACTGATTTTCCAGTTTTAAGCCC
 ACTTATCTCCAGAAGACAACCCGGCAGATTTCAATTATTTCTTTGACACATCACGGAGG
 AGAACTTGCTATATTGCTCCTGAACGTTTTGTTGATGGTGGGATGTTTGCCACTGAGTTA
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 GGAGAGTTGAAGAGAGCAATGGACATCTTTTCAGCAGGTTGTGTGATAGCTGAGCTTTTT
 ACAGAAGGTGTACCATTATTTGATCTCTCTCAACTTTTGGCTTATAGAAATGGACATTTT
 TTCCCTGAACAAGTGCTAAATAAAATTGAAGATCACAGTATCAGAGAATTGGTAACTCAG
 ATGATTCACCGTGAGCCAGATAAACGTTTAGAGGCAGAAGATTACTTAAACAGCAGCGT
 GGCAATGCCTTCTGAAATATTTTACACTTTTCTTCAGCCCTACATGGCCCAGTTTGCC



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AAGGAAACGTTTCTTTCTGCAGATGAGCGTATTCTGGTTATACGGAAGGATTTGGGCAAC
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AATGGGCTGGTTATCTTGGTATCTGTTATAACATCCTGCCTACAGACCCTTAAATACTGT
GATTCCAAAGTCTGCTTTGGAAGTCTTTCATTTGGCTCCAAGATTAAGTGTGAA
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CAATGCTGGCTCTGCATTGGTACAAGCAGTGGTACCATGGCTTGTGGGACATGAGGTTT
CAGTTGCCAATTTCAAGTCACTGTATCCTTCCAGGGCTCGAATCAGACGCCTCTCAATG
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TCTGAATTACAGCCTTCTCCTCATAGCGTCCATGGTATCTACTGTAGTCTGCAGATGGA
AATCCTATCCTACTAACAGCTGGCTCAGATATGAAAATAAGGTTTTGGGACTTGGCTTAC
CCAGAAAGGTCTATGTTGTTGCAGGAAGTACTAGTTCCCATCTGTGTCTACTACAGG
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ATTGTGAAGGTGTGAAAAAAAACCTACTGATTTGTATAAATTTAATAGTTATAAATAT

AATACTATAACTCGAGAAAAGGCATTTCTAGAGAACAGATTCATTTGCTTAATTTTCAAA
 ATTATGTCTCCATTA TACTGTTTCATGACTGACTGACTAAATGACACCCAAAATGGTTAA
 GATGTACTTGACTAGTTTACTTATGCATCTCTTTGCAAGAATCAGCCAGCCAACAATGTC
 TGGGATTTTTATTGTATATGTTATAGAGGTGAGAAATGTAATAATGAAAATGAATATGT
 TATTTTGTATTGAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014602 unedited
 TGTAATACGACTTACTATAGGGCGGCCGAATTCGGCACGAGGGTTGCTTTCCCGGGAG
 TTCGGCGTTTGTGGGGCTGCAGCAGCTGAAGTGTAGTGTCTTTGGGACTGGCGGTCT
 GCATTTCTCTCCCGGTTCCATCTCCCCCGCCCGGTGGTGAGGCCCTCGAGGAGGGCTC
 GGACGGGTGTAGCGATCCGCGCTAGAGGAAGACGAGGCCCGGGAACGCATGTCCCCCAGG
 GCAGGTTAGGGGGCTGGAGGGTCAAATCCCGGGTACTTGTGGAGACTTTTAGCGTGG
 CTTCTTCTCTGCTGAGACCCCGAGAGCTTTCCAGTTCTCTCCAGGACCACCGGGG
 TTCCTGAAGATCGGACTTTTCTGCGCCCTCCACCAACAGCCCATCTCCTGTCTATGAA
 GAAAGACCTTCGTAGAAACAACCTTCCCGCTGCTGACGCGTTTTCCCGTCCCGTCCCGG
 AAGTAGTCTACTATGACCTCGTTGTGAGCCTCTGAACGATTTTGACACTTTCCCGAGGCC
 TANGGTATTATATCCTAACCTTACTAAAGACCACAGAGGTGCTTGCCATTATGGGAAATC
 AGCTTGTGGCATTGCTCCCTCCAAAATCCTTTCTGTAGAGAGTTATTCTCCGATATTC
 ATGACTTTGAAAATGATAAAAACCCGCGGAGTACCTCCGGTTTTTAAAGCTGCTCGACCC
 AATCACCGAAAGGCCCTGGCCGTTGTGAAAGTTTTTGAATTCAAGAACCCCAATTTGCCT
 TCACCCCTTTTCAACAAAAGCTGGAGGGAACCGCAAAATAAGGCCTCAATTCTGCCCC
 ACTCGTCACTCTTTCCAAAATACTCCAAAACGCCCCCGAAATCCTCTCCCTCCTT
 TAGCCCTTTGTGCCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014602 unedited
 TGGGTTTTCTATGNACGCGCCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTACAG
 TTTAACTGCTTTGAATAGCATTTTAATAGCAAAAATGTGTTTACTATAATAGCTTAC
 AACCATCTTTCAACCATCTTTTCAATACAAAAATAAACATATTCATTTTCATATTTTAC
 ATTTCTCACCTCTATAACATATACAATAAAAATCCAGACATTGTTGGCTGGCTGATTCT
 TGCAAAGAGATGCATAAGTAAACTAGTCAAGTACATCTTAACCATTTTGGGTGTCATTTA
 GTCAGTCAGTCATGAAACAGTAATATGGAGACATAATTTTGAAAATTAAGCAAAATGAATC
 TGTTCTCTAGAAATGCCTTTTCTCGAGTTATAGTATTATTTATAACTATTTAAATTTA
 TACAAATCAGTAGGTTTTATTTCCACACCTTACAATCCCATCTCTAGAAGCAGTTACGA
 TGAAGCCCTGTGTGGTCTGGAATGTGGCGACATCAGTGATGATGTCATGATGTCCACGG
 GCAGGGACTCTGGGCCCTTCGAGGGGTGTCATCACTTGGTCCTACTTTCTGCTTATTCT
 GAATTTCTGGACAACCTCAGTGCCTTCAATTATTTTCTGTAGTAGGACACAGATGGGG
 AACTAGTACTTCTGCAACAACATAGGACCTTTCTGGGTAAGCCAAGTCCAAAACCTTA
 TTTTCATATCTGAGCCAGCTGTTAGTAGGATAGGATTTCCATCTGCAGGACTACAGTAGA
 TACCATGGACGCTATGAGGAGAAGGCTGTAATTCAGAAAATGGTGGTGCCTGCTGGCCC
 AGAGAGTAAATCTTGTGACCAGTCTCCATGTCCACATGGACACTTCGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_014602

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:	<u>NM_014602.1, NP_055417.1</u>
RefSeq Size:	5060 bp
RefSeq ORF:	4077 bp
Locus ID:	30849
UniProt ID:	<u>Q99570</u>
Cytogenetics:	3q22.1
Domains:	pkinase, WD40, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Regulation of autophagy
Gene Summary:	Regulatory 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 cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123).[UniProtKB/Swiss-Prot Function]