

## Product datasheet for **SC337583**

### **RPS6KC1 (NM\_001287219) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RPS6KC1 (NM_001287219) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS6KC1
Synonyms:	humS6PKh1; RPK118; RSKL1; S6K-delta-1; S6PKh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001287219, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTCCAATCAAATTTCTCCATTAGAACTTTTGGTCTCAATCTTTCTTCGGATTCTTCAGCACTAG
GGGCTGTGCTTCTGACAGTGAACAGAGCAAAACAGAAGAAGACGGGAAAGTCGTAGCCTCTTCTCTGG
CAGTTTAAAGCCGAAGCTTGGCAAGAGAGATTATTTGGAGAAAGCAGGAGAATTAATAAAGCTGGCTTTA
AAAAAGGAAGAAGAAGACGACTATGAAGCTGCTTCTGATTTTTATAGGAAGGGAGTTGATTACTCCTAG
AAGGTGTTCAAGGAGAGTCAAGCCCTACCCGTCGAGAAGCTGTGAAGAGAAGAACAGCCGAGTACCTCAT
GCGGGCAGAAAGTATCTCTAGTCTTTATGGGAAACCTCAGCTTGATGATGTATCTCAGGTTTTACTTGTA
ATGGACACAAGGACAGAACAGACTTTTCATTTTAAAAGGTCTAAGGAAAAGCAGTGAATACAGCAGGAACA
GAAAGACCATCATCCCCGCTGTGTGCCAACATGGTGTGTCTGCATAAGTACATCATCTCTGAGGAGTC
AGTATTTCTGTGCTGCAGCATGCGGAAGGTGGCAAACCTGTGGTCATATATCAGTAAATTTCTAACAGA
AGTCTGAAGAAAGCTTTGACATCAAGGAAGTAAAAAACCTACACTTGCAAAAGTTCACCTGCAGCAGC
CAACTTCTAGTCCTCAGGACAGCAGTAGCTTTGAATCCAGAGGAAGTGTGGTGAAGCATGCTTAAAGC
TCTGCCTTTGAAGAGTAGTCTTACTCCAAGTCTCAAGATGACAGCAACCAAGGAAGATGATGGCCAAGAT
AGCTCTCCAAAGTGGCCAGATTCTGGTTCAAGTTCAGAAGAAGAATGTACTACTAGTTATTTAAACATTAT
GCAATGAATATGGGCAAGAAAAGATTGAACCAGGGTCTTTGAATGAGGAGCCCTTCATGAAGACTGAAGG
GAATGGTGTGATACAAAAGCTATTTAAAAGCTTCCCAGCACACCTTGCTGCTGACAGTGCAGCCCCAGC
ACACAGCTGAGAGCTCACGAGCTGAAGTTCTTCCCAACGATGACCCAGAAGCAGTTAGTTCTCCAAGAA
CATCAGATTCCTCAGTAGATCAAAAAATAGCCCCATGGAATCTTTAGGATAGACAGTAAGGATAGCGC
AAGTGAACCTCTGGGACTTGACTTTGGAGAAAAATGTATAGTCTAAAAATCAGAACCTTTGAAACCATTC
TTTACTCTTCAGATGGAGACAGTGTCTTAGGAGTTTTAATACTAGTGAAGCAAGGTAGAGTTAAAG
CTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTGCAGTATTTTCATTTAAAGATGCTGCTTTTGA
TGATGTCAGTGGTACTGATGAAGGAAGCCTGATCTTCTTGTAATTTACCTGGTGAATTGGAGTCAACA
AGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATATAGGGATAATAGAAAAATAACTCT
TGGAAGCCCTGATGTTTTATGCCTCAGGCTTAGTACTGAACAATGCCAAGCACATGAGGAGAAAGGCAT
AGAGGAACTGAGTATCCCTCTGGGCCAAATCCTATAGTATAACAGAGAAACACTATGCACAGGAGGAT
CCCAGGATGTTATTTGTAGCAGCTGTTGATCATAGTAGTTCAGGAGATATGTCTTTGTTACCCAGCTCAG
ATCCTAAGTTTCAAGGACTTGGAGTGGTTGAGTCAAGTAACTGCAAACAACACAGAAGAAGCTTATT
CCGATTTTGTAGTCCACTCTCAGGTGCTAATGAATATATTGCAAGCACAGACACTTTAAAAACAGAAGAA
GTATTGCTGTTTACAGATCAGACTGATGATTTGGCTAAAGAGGAACCAACTTCTTTATCCAGAGAGACT
CTGAGACTAAGGGTGAAGTGGTTTGTAGTCTAGAAGGAGACAAGGAAATACATCAGATTTTTGAGGACCT
TGATAAAAAATTAGCACTAGCCTCCAGGTTTTACATCCCAGAGGGCTGCATTCAAAGATGGGCAGCTGAA
ATGGTGGTAGCCCTTGATGCTTTACATAGAGAGGGAATTTGTGTGCCGCGATTTGAACCCAAACAACATCT
TATTGAATGATAGAGGACACATTCAGCTAACGTATTTAGCAGGTGGAGTGAAGTTGAAGATTCCTGTGA
CAGCGATGCCATAGAGAGAATGTACTGTCCCCAGAGGTTGGAGCAATCACTGAAGAACTGAAGCCTGT
GATTGGTGGAGTTTGGGTGCTGTCTCTTTGAACCTTCTACTGGCAAGACTCTGGTTGAATGCCATCCAG
CAGGAATAAATACTCACACTACTTTGAACATGCCAGAATGTGTCTCTGAAGAGGCTCGCTCACTCATTCA
ACAGCTTTGCAGTTCAATCCTCTGGAACGACTTGGTGTGAGTTGCTGGTGTGAAGATATCAAATCT
CATCCATTTTTTACCCTGTGGATTGGGCAGAAGTATGAGATGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001287219

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001287219.1, NP_001274148.1</u>
<b>RefSeq Size:</b>	4243 bp
<b>RefSeq ORF:</b>	2565 bp
<b>Locus ID:</b>	26750
<b>Cytogenetics:</b>	1q32.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>Sphingosine kinase catalyzes the formation of sphingosine 1 phosphate, a lipid cellular messenger. The protein encoded by this gene can bind to sphingosine kinase and to phosphatidylinositol 3-phosphate, suggesting a role in sphingosine 1 phosphate signaling. The encoded protein can also bind to peroxiredoxin-3 and may help transport it to mitochondria. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (4) differs in its 5' UTR, initiates translation at a downstream start codon, and lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (c) is shorter, compared to isoform a. Variants 3, 4, and 15 all encode the same isoform (c). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>