

## Product datasheet for **RC239688**

### **RPS6KC1 (NM\_001287218) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RPS6KC1 (NM_001287218) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS6KC1
Synonyms:	humS6PKh1; RPK118; RSKL1; S6K-delta-1; S6PKh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239688 representing NM\_001287218  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTCCAATCAAATTTCTCCATTAGAACTTTTGGTCTCAATCTTTCTCGATTCTTCAGCACTAG  
 GGGCTGTTGCTTCTGACAGTGAACAGAGCAAAACAGAAGAAGAACGGGAAAGTCGTAGCCTCTTTCTGG  
 CAGTTTAAAGCCGAAGCTTGGCAAGAGAGATTATTTGGAGAAAGCAGGAGAATTAATAAAGCTGGCTTTA  
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 AAGGTGTTCAAGGAGAGTCAAGCCCTACCCGTCGAGAAGCTGTGAAGAGAAGAAGACAGCCGAGTACCTCAT  
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 ATGGACACAAGGACAGAACAGACTTTCATTTTAAAAGTCTAAGGAAAAGCAGTGAATACAGCAGGAACA  
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 AGTCTGAAGAAAGCTTTGACATCAAGGAAGTGAAGAAACCTACACTTGCAAAAGTTCACCTGCAGCAGC  
 CAACTTCTAGTCCTCAGGACAGCAGTAGCTTTGAATCCAGAGGAAGTGATGGTGGAAAGCATGCTTAAAGC  
 TCTGCCTTTGAAGAGTAGTCTTACTCCAAGTCTCAAGATGACAGCAACCAGGAAGATGATGGCCAAGAT  
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 AGAGGAAGTGAAGTATCCCTCTGGGCCAAATCCTATAGTATAACAGAGAAACACTATGCACAGGAGGAT  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239688 representing NM\_001287218  
Red=Cloning site Green=Tags(s)

MASNQNSPIRTFGLNLSDDSSALGAVASDSEQSKTEEERESRSLFPGSLKPKLGKRDYLEKAGELIKLAL  
KKEEEDDYEAASDFYRKGVDLLLEGVQGESSPTRREAVKRRTAEYLMRAESISSLYGKQLDDVSQVLLV  
MDTRTEQTFILKGLRKSSEYSRNRKTIIPRCVPMVCLHKYIISEESVFLVLQHAEGGKLWSYISKFLNR  
SPEESFDIKEVKKPTLAKVHLQQPTSSPQDSSSFESRGSDDGGMLKALPLKSSLTPSSQDDSNQEDDGQD  
SSPKWPDSGSSSEEECTTSYLTLCNEYGQEKIEPGSLNEEPPFMKTEGNGVDTKAIKSFAHLAADS D SPS  
TQLRAHELKFFPNDPEAVSSPRTSDLSRSKNSPMEFFRIDSKDSASELLGLDFGEKLYSLKSEPLKPF  
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MVVALDALHREGIVCRDLNPNILLNDRGHIQLTYFSRWSEVEDSCSDAIERMYCAPEVGAITEETEAC  
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HPFFTPVDWAELMR

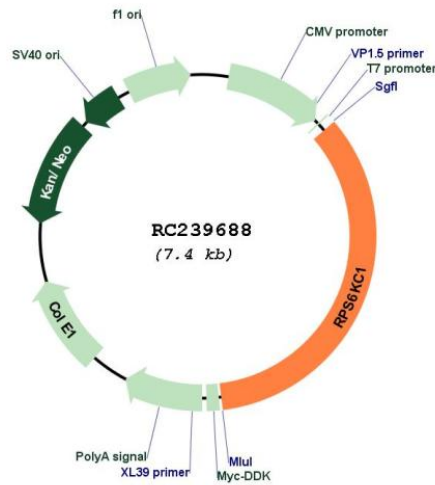
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001287218
<b>ORF Size:</b>	2562 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001287218.2</a>
<b>RefSeq Size:</b>	4204 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>MW:</b>	94.9 kDa
<b>Gene Summary:</b>	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]