

Product datasheet for **RC239049**

RPS6KC1 (NM_001287220) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS6KC1 (NM_001287220) 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:

>RC239049 representing NM_001287220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTAAAGCTCTGCCTTTGAAGAGTAGTCTTACTCCAAGTTCTCAAGATGACAGCAACCAGGAAGATG
 ATGGCCAAGATAGCTCTCCAAAGTGCCAGATTCTGGTTCAAGTTCAGAAGAAGAATGTACTACTAGTTA
 TTTAACATTATGCAATGAATATGGGCAAGAAAAGATTGAACCAGGGTCTTTGAATGAGGAGCCCTTCATG
 AAGACTGAAGGGAATGGTGTGATACAAAAGCTATTAAGCTTCCCAGCACACCTTGCTGCTGACAGTG
 ACAGCCCCAGCACACAGCTGAGAGCTCACGAGCTGAAGTTCTTCCCAACGATGACCCAGAAGCAGTTAG
 TTCTCCAAGAACATCAGATCCCTCAGTAGATCAAAAAATAGCCCATGGAATCTTTAGGATAGACAGT
 AAGGATAGCGCAAGTGAAGTCTGGGACTTGACTTTGGAGAAAAATTGTATAGTCTAAAATCAGAACCTT
 TGAACCATTCTTACTCTCCAGATGGAGACAGTCTTCTAGGAGTTTTAATACTAGTGAAGCAAGGT
 AGAGTTTAAAGCTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTCCAGTTATTTCAATTTAAAGT
 GCTGCTTTTGATGATGTCAGTGGTACTGATGAAGGAAGACCTGATCTTCTGTAAATTTACCTGGTGAAT
 TGGAGTCAACAAGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATATAGGGATAATAGA
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 GAGAAAGGCATAGAGGAAGTGAAGTATCCCTCTGGGCCCAATCTATAGTATAACAGAGAAACACTATG
 CACAGGAGGATCCAGGATGTTATTTGTAGCAGCTGTTGATCATAGTAGTTCAGGAGATATGCTTTGTT
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 GATTCCTGTGACAGCGATGCCATAGAGAGAATGTACTGTCCCCAGAGGTTGGAGCAACTACTGAAGAAA
 CTGAAGCCTGTGATTGGTGGAGTTGGGTGCTGCTCCTTTGAACTTCTCACTGGCAAGACTCTGGTTGA
 ATGCCATCCAGCAGGAATAAATACTCACACTACTTTGAACATGCCAGAATGTGTCTCTGAAGAGGCTCGC
 TCACTCATTCAACAGCTCTGCAGTTCAATCCTCTGGAACGACTTGGTGTGGAGTTGCTGGTGTGAAG
 ATATCAAATCTCATCCATTTTTTACCCCTGTGGATTGGGCAGAACTGATGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239049 representing NM_001287220
 Red=Cloning site Green=Tags(s)

MLKALPLKSSLTPSSQDDSNQEDDGQDSSPKWPDSSGSSSEEECTTSYLTLCNEYGQEKIEPGLNPEPFM
 KTEGNGVDTKAIKSFPAHLAADS DSPSTQLRAHELKFFPNDDPEAVSSPRTSDLSRSKNSPMEFFRIDS
 KDSASELLGLDFGEKLYSLKSEPLKPFFTLPDGSASRSFNTSESKVEFKAQDTISRGSDDSVPI SFKD
 AAFDDVSGTDEGRDLLVNLPGELESTREAAAMGPTKFTQTNIIGIENKLL EAPDVLCLRLSTEQCQAHE
 EKGIEELSDPSGPKSYSITEKHQAQEDPRMLFVAAVDHSSSGDMSLLPSSDPKFQGLGVVESAVTANNTE
 ESLFRICSP LSGANEYIASTDTLKTEEVLLFTDQTDLLAKEEPTSLFQRDSETKGESGLVLEGDKEIHQI
 FEDLDKLLALASRFYIPEGCIQRWAAEMVVALDALHREGIVCRDLNPNILLNDRGHIQLTYFSRWSEVE
 DSCSDAIERMYCAPEVGAITEETEACDWWSLGAVLFELLTGKTLVECHPAGINTHTTLNMPPECVSEEAR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

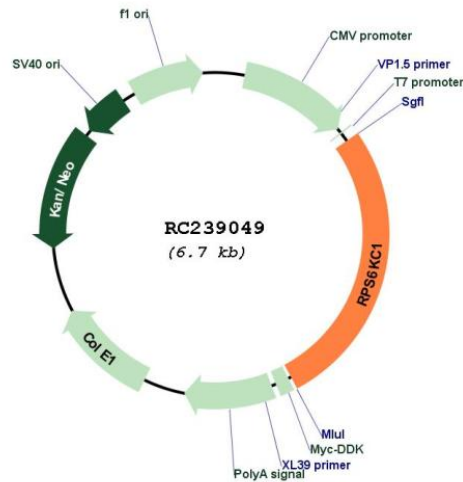
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287220

ORF Size: 1803 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001287220.2
RefSeq Size:	4038 bp
RefSeq ORF:	1806 bp
Locus ID:	26750
Cytogenetics:	1q32.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	66.6 kDa
Gene Summary:	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]