

Product datasheet for **RC239734**

RPS6KC1 (NM_001287221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS6KC1 (NM_001287221) 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



[View online »](#)

ORF Nucleotide Sequence:

>RC239734 representing NM_001287221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCCAATCAAATTCCTCCATTAGAACTTTTGGTCTCAATCTTTCTCGATTCTTCAGCACTAG
 GGGCTGTTGCTTCTGACAGTGAACAGAGCAAAACAGAAGAAGAACGGGAAAGTCGTAGCCTTTTCTGG
 CAGTTTAAAGCCGAAGCTTGGCAAGAGAGATTATTTGGAGAAAGCAGGAGAATTAATAAAGCTGGCTTTA
 AAAAGGAAGAAGAAGACGACTATGAAGCTGCTTCTGATTTTTATAGGAAGGGAGTTGATTTACTCCTAG
 AAGGTGTTCAAGGAGAGTCAAGCCCTACCCGTCGAGAAGCTGTGAAGAGAAGAACAGCCGAGTACCTCAT
 GCGGGCAGAAAGTATCTTAGTCTTTATGGGAAACCTCAGCTTGATGATGTATCTCAGCCTCCAGGATCA
 CTAAGTTCAAGGCCCTTTGGAACCTAAGGAGCCCTGCCGAGGAGCTGAAGGCCCTCAGAGTCTTTGGGG
 TGATTGACAAGGTTTTACTTGAATGGACACAAGGACAGAACAGACTTTCATTTTAAAAGGTCTAAGGAA
 AAGCAGTGAATACAGCAGGAACAGAAAGACCATCATCCCCGCTGTGTGCCAACATGGTGTGTCTGCAT
 AAGTACATCATCTCTGAGGAGTCAGTATTTCTTGTGCTGCAGCATGCCGAAGGTGGCAAACCTGTGGTCAT
 ATATCAGTAAATTTCTAAACAGAAGTCCTGAAGAAAGCTTTGACATCAAGGAAGTAAAAAACCTACACT
 TGCAAAAGTTCACCTGCAGCAGCAACTTCTAGTCTCAGGACAGCAGTACTTTGAATCCAGAGGAAGT
 GATGGTGAAGCATGCTTAAAGCTCTGCCTTTGAAGAGTAGTCTTACTCCAAGTCTCAAGATGACAGCA
 ACCAGGAAGATGATGGCCAAGATAGCTCTCAAAGTGGCCAGATTCTGGTTCAAGTTCAGAAGAAGAATG
 TACTACTAGTTATTTAACATTATGCAATGAATATGGGCAAGAAAAGATTGAACCAGGGTCTTTGAATGAG
 GAGCCCTTCATGAAGACTGAAGGGAATGGTGTGATACAAAAGCTATTTAAAAGCTTCCAGCACACCTTG
 CTGATGACAGTGACAGCCCCAGCACAGCTGAGAGCTCAGGAGTGAAGTTCTTCCCAACGATGACCC
 AGAAGCAGTTAGTTCTCCAAGAACATCAGATTCCTCAGTAGATCAAAAAATAGCCCCATGGAAATCTTT
 AGGATAGACAGTAAGGATAGCGCAAGTGAACCTCTGGGACTTGACTTTGGAGAAAAATTGTATAGTCTAA
 AATCAGAACCTTTGAAACCATTCTTACTCTTCCAGATGGAGACAGTGTCTTAGGAGTTTTAATACTAG
 TGAAAGCAAGGTAGGTTTTAAAGCTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTCCAGTTATT
 TCATTTAAAGATGCTGCTTTTGTATGTCTAGTGGTACTGATGAAGGAAGACCTGATCTTCTGTAAATT
 TACCTGGTGAATTGGAGTCAACAAGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATAT
 AGGGATAATAGAAAATAAATCTTGAAGCCCTGATGTTTTATGCCTCAGGCTTAGTACTGAACAATGC
 CAAGCACATGAGGAGAAAGGCATAGAGGAACTGAGTGTCCCTCTGGGCCAAATCCTATAGTATAACAG
 AGAAACACTATGCACAGGAGGATCCCAGGATGTTATTTGTAGCAGCTGTTGATCATAGTAGTTCAGGAGA
 TATGTCTTTGTTACCCAGCTCAGATCCTAAGTTTCAAGGACTTGGAGTGGTTGAGTCAGCAGTAACTGCA
 AACAACACAGAAGAAAGCTTATTCGGTATTTGTAGTCCACTCTCAGGTGCTAATGAATATATTGCAAGCA
 CAGACACTTTAAAAACAGAAGAAGTATTGCTGTTACAGATCAGACTGATGATTTGGCTAAAGAGGAACC
 AACTTCTTTATCCAGAGAGACTCTGAGACTAAGGGTGAAGTGGTTTAGTGCTAGAAGGAGACAAGGAA
 ATACATCAGATTTTTGAGGACCTTGATAAAAAATTAGCACTAGCCTCCAGGTTTTACATCCAGAGGGCT
 GCATTTAAAGATGGGCAGCTGAAATGGTGGTAGCCCTTGATGCTTTACATAGAGAGGGAATTGTGTGCCG
 CGATTTGAACCCAAACAACATCTTATTGAATGATAGAGGACACATTCAGTAACGTATTTTAGCAGGTGG
 AGTGAGGTTGAAGATTCCTGTGACAGCGATGCCATAGAGAGAATGTACTGTGCCCCAGAGTTGGAGCAA
 TCACTGAAGAACTGAAGCCTGTGATTGGTGGAGTTTGGGTGCTGTCTCTTTGAACTTCTCACTGGCAA
 GACTCTGGTTGAATGCCATCCAGCAGGAATAAATACTCACACTACTTTGAACATGCCAGAATGTGTCTCT
 GAAGAGGCTCGCTCACTCATTCAACAGCTCTTGCAAGTTCAATCCTCTGGAACGACTTGGTGTGGAGTTG
 CTGGTGTGAAGATATCAAATCTCATCCATTTTTTACCCTGTGGATTGGGCAGAACTGATGAGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239734 representing NM_001287221
 Red=Cloning site Green=Tags(s)

MASNQNSPIRTFGLNLSSDSSALGAVASDSEQSKTEEERESRSLFPGSLKPKLGKRDYLEKAGELIKLAL
 KKEEEDDYEAASDFYRKGVDLLLEGVQGESSPTRREAVKRRTAEYLMRAEISSLYGKPQLDDVSQPPGS
 LSSRPLWNLRSAPAEELKAFRVLGVIDKVLVMDTRTEQTFILKGLRKSSEYSRNRKTIIPRCVPMVCLH
 KYIISEESVFLVLQHAEGGKLWSYISKFLNRSPEESFDIKEVKKPTLAKVHLQQPTSSPDSSSFESRGS
 DGGMLKALPLKSSLTPSSQDDSNQEDDQDSSPKWPDSGSSSEEECTTSYLTLCNEYGQEKIEPGLNE
 EPFMKTEGNQVDTKAIKSFPAPHLAADS DSPSTQLRAHELKFFPNDPEAVSSPRTSDSLSRKNSPMEFF
 RIDSKDSASELLGLDFGEKLYSLKSEPLKPFFTLPDGDSASRSFNTSESKVEFKAQDTISRGSDDSVPVI
 SFKDAAFDDVSGTDEGRDLLVNLPGELESTREAAAMGPTKFTQTNIGIENKLL EAPDVLCLRLSTEQC
 QAHEEKGIEELSDPSGPKSYSITEKHQAQEDPRMLFVAAVDHSSSGDMSLLPSSDPKFQGLGVVESAVTA
 NNTESLFRICSP LSGANEYI A STDLKTEEVL LFTDQTDLAKKEPTSLFQ R DSETKGE SGLVLEGDKE
 IHQIFEDLDKKLALASRFYIPEGCIQRWAAEMVVALDALHREGIVCRDLNPNNILLNDRGHIQLTYFSRW
 SEVEDSCSDAIERMYCAPEVGAITEETEACDWWSLGAVLFELLTGKTLVECHPAGINTHTLNMPECV S
 EEARSLIQQLQFNPLERLGAGVAGVEDIKSHPPFFTPVDWAE LMR

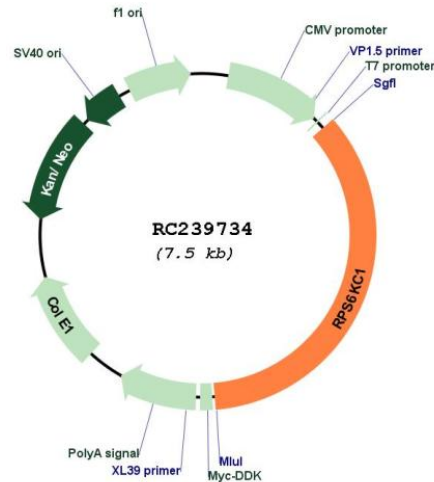
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001287221

ORF Size: 2655 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:

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_001287221.2](#)

RefSeq Size: 4098 bp

RefSeq ORF: 2658 bp

Locus ID: 26750

Cytogenetics: 1q32.3

Protein Families: Druggable Genome, Protein Kinase

MW: 98.3 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]