

Product datasheet for **RC239689**

RPS6KC1 (NM_001287219) Human Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RPS6KC1 (NM_001287219) 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:**

>RC239689 representing NM_001287219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCCAATCAAATTCCTCCATTAGAACTTTTGGTCTCAATCTTTCTCGATTCTTCAGCACTAG
 GGGCTGTTGCTTCTGACAGTGAACAGAGCAAAACAGAAGAAGAACGGGAAAGTCGTAGCCTCTTTCTGG
 CAGTTTAAAGCCGAAGCTTGGCAAGAGAGATTATTTGGAGAAAGCAGGAGAATTAATAAAGCTGGCTTTA
 AAAAGGAAGAAGAAGACGACTATGAAGCTGCTTCTGATTTTTATAGGAAGGGAGTTGATTTACTCCTAG
 AAGGTGTTCAAGGAGAGTCAAGCCCTACCCGTCGAGAAGCTGTGAAGAGAAGAAGACAGCCGAGTACCTCAT
 GCGGGCAGAAAGTATCTTAGTCTTTATGGGAAACCTCAGCTTGATGATGTATCTCAGGTTTTACTTGTA
 ATGGACACAAGGACAGAACAGACTTTCATTTTAAAAGGTCTAAGGAAAAGCAGTGAATACAGCAGGAACA
 GAAAGACCATCATCCCCGCTGTGTGCCAACATGGTGTGTCTGCATAAGTACATCATCTCTGAGGAGTC
 AGTATTTCTTGTCTGCAGCATGCGGAAGGTGGCAAACCTGTGGTCATATATCAGTAAATTTCTAAACAGA
 AGTCTGAAGAAAGCTTTGACATCAAGGAAGTGAAGAAACCTACACTTGCAAAAGTTCACCTGCAGCAGC
 CAACTTCTAGTCCTCAGGACAGCAGTAGCTTTGAATCCAGAGGAAGTGATGGTGGAAAGCATGCTTAAAGC
 TCTGCCTTTGAAGAGTAGTCTTACTCCAAGTCTCAAGATGACAGCAACCAGGAAGATGATGGCCAAGAT
 AGCTCTCCAAAGTGGCCAGATTCTGGTTCAAGTTCAGAAGAAGAATGACTACTAGTTATTTAACATTAT
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 GAATGGTGTGATACAAAAGCTATTAAGCTTCCCAGCACACCTTGCTGCTGACAGTGCAGCCCCAGC
 ACACAGCTGAGAGCTCAGGAGCTGAAGTCTTCCCACAGTACCCAGAAAGCAGTTAGTTCTCCAAGAA
 CATCAGATTCCTCAGTAGATCAAAAAATAGCCCCATGGAATTCCTTAGGATAGACAGTAAAGCATGCC
 AAGTGAACCTCTGGGACTTGACTTTGGAGAAAAATGTATAGTCTAAAAATCAGAACCTTTGAAACCATTC
 TTTACTCTCCAGATGGAGACAGTGCTTCTAGGAGTTTTAATACTAGTGAAGCAAGGTAGAGTTTAAAG
 CTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTGCCAGTTATTTCAATTTAAAGATGCTGCTTTTGA
 TGATGTCAGTGGTACTGATGAAGGAAGACCTGATCTTCTGTAAATTTACCTGGTGAATGGAGTCAACA
 AGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATATAGGGATAATAGAAAAAACTCT
 TGGAAAGCCCTGATGTTTTATGCCTCAGGCTTAGTACTGAACAATGCCAAGCACATGAGGAGAAAGGCAT
 AGAGGAAGTGAAGTATCCCTCTGGGCCAAATCCTATAGTATAACAGAGAAACACTATGCACAGGAGGAT
 CCCAGGATGTTATTTGTAGCAGCTGTTGATCATAGTAGTTCAGGAGATATGTCTTTGTTACCCAGCTCAG
 ATCCTAAGTTTCAAGGACTTGGAGTGGTTGAGTACAGCAGTAACTGCAAAACACACAGAAGAAAGCTTATT
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 GATTGGTGGAGTTGGGTGCTGTCTCTTTGAACTTCTCACTGGCAAGACTCTGGTTGAATGCCATCCAG
 CAGGAATAAATACTCACACTACTTTGAACATGCCAGAATGTGTCTCTGAAGAGGCTCGCTCACTCATTCA
 ACAGCTCTGCAGTTCAATCCTCTGGAACGACTTGGTGTGGAGTTGCTGGTGTGAAGATATCAAATCT
 CATCCATTTTTTACCCTGTGGATTGGGCAGAAGTATGATGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239689 representing NM_001287219
Red=Cloning site Green=Tags(s)

MASNQNSPIRTFGLNLSDDSSALGAVASDSEQSKTEEERESRSLFPGSLKPKLGKRDYLEKAGELIKLAL
KKEEEDDYEAASDFYRKGVDLLLEGVQGESSPTRREAVKRRTAEYLMRAESISSLYGKQLDDVSQVLLV
MDTRTEQTFILKGLRKSSEYSRNRKTIIPRCVPMVCLHKYIISEESVFLVLQHAEGGKLWSYISKFLNR
SPEESFDIKEVKKPTLAKVHLQQPTSSPQDSSSFESRGSDDGGMLKALPLKSSLTPSSQDDSNQEDDGQD
SSPKWPDSGSSSEEECTTSYLTLCNEYGQEKIEPGSLNEEPPFMKTEGNGVDTKAIKSFAHLAADSDDSPS
TQLRAHELKFFPNDPEAVSSPRTSDLSRSKNPMEFFRIDSKDSASELLGLDFGEKLYSLKSEPLKPF
FTLPDGDSASRSFNTSESKVEFKAQDTISRGSDDSVPVISFKDAAFDDVSGTDEGRPDLLVNLPGELEST
REAAAMGPTKFTQTNIGI IENKLEAPDVLCLRLSTEQCQAHEEKGIEELSDPSGPKSYSITEKHQAQED
PRMLFVAAVDHSSSGDMSLLPSSDPKFQGLGVVESAVTANNTESLFRICSPSGANEYIASTDTLKTEE
VLLFTDQTDLLAKEPTSLFQRDSETKGESGLVLEGDKEIHQIFEDLKKLALASRFYIPEGCIQRWAAE
MVVALDALHREGIVCRDLNPNILLNDRGHIQLTYFSRWSEVEDSCSDAIERMYCAPEVGAITEETEAC
DWWSLGAVLFELLTGKTLVECHPAGINTHTTLNMPCEVSEEARSLIQQLLQFNPLERLGAGVAGVEDIKS
HPFFTPVDWAELMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

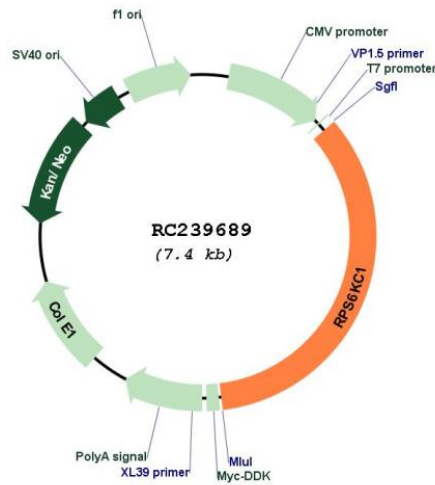
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


| | |
|-------------------------------|---|
| ACCN: | NM_001287219 |
| ORF Size: | 2562 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_001287219.2 |
| RefSeq Size: | 4243 bp |
| RefSeq ORF: | 2565 bp |
| Locus ID: | 26750 |
| Cytogenetics: | 1q32.3 |
| Protein Families: | Druggable Genome, Protein Kinase |
| MW: | 94.9 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] |