

Product datasheet for **RG211142**

RPS6KC1 (NM_012424) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPS6KC1 (NM_012424) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPS6KC1
Synonyms: humS6PKh1; RPK118; RSKL1; S6K-delta-1; S6PKh1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211142 representing NM_012424
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACCTCTTACCGGGAGCGGAGTGCCGACCTGGCCGTTTCTACACTGTCACCGAGCCCCAGCGACACC
 CGAGGGGTACACAGTATATAAGGTCACCGCCCGGTTGTTTACGAAGAAATCCAGAGGATGTCCAGGA
 GATAATTGTATGGAAGAGATACAGTGATTTAAGAACTACACAAAGAACTATGGCAAATCACAAAAAC
 TTATTCCGACATTCAGAGTTGTTTCTCCATTTGCTAAAGGAATAGTGTTGGGCGATTTGATGAACTG
 TTATCGAAGAGAGAAGACAATGTGCTGAAGACCTGCTACAGTTCTCTGCCAATATTCCTGCTCTTACAA
 TAGTAAACAGCTTGAAGACTTTTCAAGGGTGAATAATTAATGATAGTTCTGAATTAATTGGTCCCTGCT
 GAAGCTCACTCAGATTCCTCATTGATACCTTTCTGAGTGATGACGGAAGGCTTCTCCAGTGACAGTG
 ATCTGGTATCTCTACTGTTGATGTGGATTCTCTTCTGCTGAGTTAGATGATGGAATGGCTTCCAATCAAAA
 TTCTCCATTAGAATTTTGGTCTCAATCTTTCTCGGATTCTTCAGCACTAGGGGCTGTTGCTTCTGAC
 AGTGAACAGAGCAAAACAGAAGAAGACGGAAAGTCGTAGCCTCTTCTGGCAGTTTAAAGCCGAAGC
 TTGGCAAGAGAGATTATTTGGAGAAAGCAGGAGAATTAATAAAGCTGGCTTAAAAAGGAAGAAGAAGA
 CGACTATGAAGCTGCTTCTGATTTTTATAGGAAGGGAGTTGATTTACTCCTAGAAGGTGTTCAAGGAGAG
 TCAAGCCCTACCGTCGAGAAGCTGTGAAGAGAAGAACAGCCAGTACCTCATCGGGCAGAAAGTATCT
 CTAGTCTTTATGGGAAACCTCAGCTTGATGATGTATCTCAGCCTCCAGGATCACTAAGTTCAAGGCCCT
 TTGAAACCTAAGGAGCCCTGCCGAGGAGCTGAAGGCCTTCAGAGTCTTGGGGTGATTGACAAGTTTTTA
 CTTGTAATGGACACAAGGACAGAACAGACTTTTCAATTTAAAAAGGCTAAGGAAAAGCAGTGAATACAGCA
 GGAACAGAAAGACCATCATCCCCGCTGTGTGCCCAACATGGTGTGTCTGCATAAGTACATCATCTCTGA
 GGAGTCAGTATTTCTGTGCTGCAGCATGCGGAAGGTGGCAAACGTGGTGCATATATCAGTAAATTTCTA
 AACAGAAGTCCTGAAGAAAGCTTTGACATCAAGGAAGTAAAAAACCTACACTTGCAAAAAGTTACACCTGC
 AGCAGCCAACTTCTAGTCTCAGGACAGCAGTAGCTTTGAATCCAGAGGAAGTATGGTGAAGCATGCT
 TAAAGCTCTGCTTTGAAGAGTAGTCTTACTCCAAGTTCTCAAGATGACAGCAACCAGGAAGATGATGCC



CAAGATAGCTCTCCAAAGTGGCCAGATTCTGGTCAAGTTCAGAAGAAGAATGTACTACTAGTTATTTAA
 CATTATGCAATGAATATGGGCAAGAAAAGATTGAACCAGGGTCTTTGAATGAGGAGCCCTTCATGAAGAC
 TGAAGGGAATGGTGTGATACAAAAGCTATTAAGGCTCCCAGCACACCTTGCTGCTGACAGTGACAGC
 CCCAGCACACAGCTGAGAGCTCACGAGCTGAAGTTCTCCCAACGATGACCCAGAAGCAGTTAGTTCTC
 CAAGAACATCAGATTCCCTCAGTAGATCAAAAAATAGCCCATGGAATCTTTAGGATAGACAGTAAGGA
 TAGCGCAAGTGAAGTCCCTGGGACTTGACTTTGGAGAAAAATTGTATAGTCTAAAAACAGAACCTTTGAAA
 CCATTTACTCTCCAGATGGAGACAGTGTCTAGGAGTTTTAATACTAGTAAAAGCAAGGTAGAGT
 TTAAGGCTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTGCCAGTTATTTCAATTAAGATGCTGC
 TTTTGATGATGTCAGTGGTACTGATGAAGGAAGACCTGATCTTCTGTAATTTACCTGGTGAATTGGAG
 TCAACAAGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATATAGGGATAATAGAAAATA
 AACTCTTGAAGCCCTGATGTTTTATGCCTCAGGCTTAGTACTGAACAATGCCAAGCACATGAGGAGAA
 AGGCATAGAGGAAGTGAAGTATCCCTCTGGGCCAAATCTATAGTATAACAGAGAAACACTATGCACAG
 GAGGATCCAGGATGTTATTTAGCAGCTGTTGATCAGTAGTTCAGGAGATATGCTTTGTACCCA
 GCTCAGATCCTAAGTTTCAAGGACTTGGAGTGGTTGAGTCAGCAGTAAGTCAAACAACACAGAAGAAAG
 CTTATTCGATTTGTAGTCCACTCTCAGGTGCTAATGAATATATTGCAAGCACAGACACTTTAAAAACA
 GAAGAAGTATTGCTGTTACAGATCAGACTGATGATTTGGCTAAAGAGGAACCAACTTCTTTATTCCAGA
 GAGACTCTGAGACTAAGGTTGAAAGTGGTTTGTGCTAGAAGGAGACAAGGAAATACATCAGATTTTTGA
 GGACCTTGATAAAAAATAGCACTAGCCTCCAGGTTTTACATCCCAGAGGGCTGCATTCAAAGATGGGCA
 GCTGAAATGGTGGTAGCCCTTGATGCTTACATAGAGAGGGAATTGTGTGCCGCGATTTGAACCCAAACA
 ACATCTTATTGAATGATAGAGGACACATTCAGCTAACGTATTTAGCAGGTGGAGTGAGGTTGAAGATTC
 CTGTGACAGCGATGCCATAGAGAGAATGTACTGTGCCAGAGGTTGGAGCAATCACTGAAGAACTGAA
 GCCTGTGATTGGTGGAGTTGGGTGCTGCTCTTTGAACTTCTCACTGGCAAGACTCTGGTTGAATGCC
 ATCCAGCAGGAATAAATACTCACACTACTTTGAACATGCCAGAATGTGTCTGAAGAGGCTCGCTCACT
 CATTCAACAGCTCTGCAGTTCAATCCTCTGGAACGACTTGGTGTGGAGTTGCTGGTGTGAAGATATC
 AAATCTCATCCATTTTTTACCCTGTGGATTGGGCAGAAGTATGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211142 representing NM_012424
 Red=Cloning site Green=Tags(s)

MTSYRERSADLARFYTVTEPQRHPRGYTVYKVTARVVSRRNPEDVQEIIIVWKRYSDFKLHKELWQIHK
 LFRHSELFPFPAKGI VFRGFDETVIEERRQCAEDLLQFSANIPALYNSKQLEDFFKGGIINDSSELIGPA
 EAHSDSLIDTFPECSTEGFSSDSDLVSLTVDVSLAELDDGMASNQNSPIRTFGLNLSDDSSALGAVASD
 SEQSKTEEERESRSLFPGSLKPKLGKRDYLEKAGELIKLALKKEEEDDYEAASDFYRKGVDLLEGVQGE
 SSPTRREAVKRRTAEYLMRAEISSLYGKPQLDDVVSQPPGSLSSRPLWNLRSAPAEELKAFRVLGVIDKVL
 LVM DTRTEQTFILKGLRKSSEYSRNRKTIIPRCVPMVCLHKYIISEESVFLVLQHAEGGKLSYISKFL
 NRSPEESFDIKEVKKPTLAKVHLQOPTSSPQDSSSFESRSGDGGSMMLKALPLKSSLTPSSQDSSNQEDDG
 QDSSPKWPDSSGSSSEEECTSYLTLCNEYGQEKIEPGSLNEEPFMKTEGNGVDTKAIKSFAHLAADS
 PSTQLRAHELKFFPNDDPEAVSSPRTSDSLSRKNSPMEFFRIDSKDSASELLGLDFGEKLYSLKSEPLK
 PFFTL PDGDSASRSFNTSESKVEFKAQDTISRGSDDSVPIVSKDAAFDDVSGTDEGRPDLLVNLPGELE
 STREAAAMGPTKFTQTNIGIENKLLLEAPDVLCLRLSTEQCQAHEEKIEELSDPSGPKSYSITEKHYAQ
 EDPRMLFVAAVDHSSSGDMSLLPSSDPKFQGLGVVESAVTANTEEELFRICSPLSGANEYIASTDTLKT
 EEVLLFTDQDLDLAKEEPTSLFQRDSETKGESGLVLEGDKEIHQIFEDLDKLLALASRFYIPEGCIQRWA
 AEMVVALDALHREGIVCRDLNPNNILLNDRGHIQLTYFSRWSEVEDSCSDAIERMYCAPEVGAIETE
 ACDWWSLGAFLFELLTGKTLVEHPAGINTHTTLNMPCEVSEEARSLIQQLLQFNPLERL GAGVAGVEDI
 KSHPPFTPVDAELMR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012424

ORF Size: 3198 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_012424.6](#)

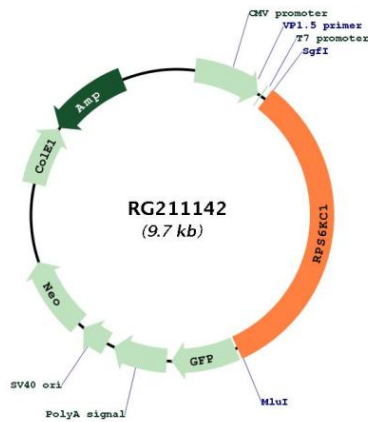
RefSeq Size: 4196 bp

RefSeq ORF: 3201 bp

Locus ID: 26750

UniProt ID: [Q96S38](#)
Cytogenetics: 1q32.3
Domains: pkinase, PX, S_TKc, MIT
Protein Families: Druggable Genome, Protein Kinase
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]

Product images:



Circular map for RG211142