

## Product datasheet for **RG239049**

### **RPS6KC1 (NM\_001287220) Human Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RG239049 representing NM\_001287220.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTTAAAGCTCGCTTTGAAGAGTAGTCTTACTCCAAGTCTCAAGATGACAGCAACCAGGAAGAT
GATGGCCAAGATAGCTCTCCAAAGTGGCCAGATTCTGGTTCAAGTTCAGAAGAAGATGTACTACTAGT
TATTTAACATTATGCAATGAATATGGGCAAGAAAAGATTGAACCGGGTCTTTGAATGAGGAGCCCTTC
ATGAAGACTGAAGGGAATGGTGTGATACAAAAGCTATTAAGCTTCCAGCACACCTTCTGCTGACTG
AGTGACAGCCCCAGCACAGCTGAGAGCTCACGAGCTGAAGTCTTCCCAACGATGACCCAGAAGCA
GTTAGTCTCCAAGAACATCAGATTCCCTCAGTAGATCAAAAAATAGCCCATGGAATCTTTAGGATA
GACAGTAAGGATAGCGCAAGTGAACCTCTGGGACTTGACTTTGGAGAAAAATTGTATAGTCTAAATCA
GAACCTTTGAAACCATTCTTACTCTCCAGATGGAGACAGTCTTCTAGGAGTTTTAACTAGTGAA
AGCAAGGTAGAGTTTAAAGCTCAGGACACCATTAGCAGGGGCTCAGATGACTCAGTGCCAGTTATTTCA
TTTAAAGATGCTGCTTTTATGATGTGCTGAGTGGTACTGATGAAGGAAGACCTGATCTTCTGTAAATTTA
CCTGGTGAATTGGAGTCAACAAGAGAAGCTGCAGCAATGGGACCTACTAAGTTTACACAACTAATATA
GGGATAATAGAAAATAAACTCTTGAAGCCCTGATGTTTTATGCCTCAGGCTTAGTACTGAACAATGC
CAAGCACATGAGGAGAAAGGCATAGAGGAACTGAGTGTCCCTCTGGGCCAAATCCTATAGTATAACA
GAGAAACACTATGCACAGGAGGATCCCAGGATGTTATTTGTAGCAGCTGTTGATCATAGTAGTTCAGGA
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GCAAAACACAGAAGAAAGCTTATCCGATTTGTAGTCCACTCTCAGGTGCTAATGAATATATTGCA
AGCACAGACACTTTAAAAACAGAAGAAGTATTGCTGTTTACAGATCAGACTGATGATTTGGCTAAAGAG
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CTCACTGGCAAGACTCTGGTTGAATGCCATCCAGCAGGAATAAATACTCACACTACTTTGAACATGCCA
GAATGTGTCTCTGAAGAGGCTCGCTCACTCATTCAACAGCTCTTGCAGTCAATCCTCTGGAACGACTT
GGTGTGGAGTGGTGGTGAAGATATCAAATCTCATCCATTTTTACCCCTGTGGATTGGGCAGAA
CTGATGAGA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239049  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLKALPLKSSLTPSSQDDSNQEDDGDSSPKWPDSSGSSSEEECTTSYLTLCNEYGQEKIEPGSLNEEPP
MKTEGNGVDTKAIKSFPAHLAADS DSPSTQLRAHELKFFPNDPEAVSSPRTSDLSRSKNSPMEFFRI
DSKDSASELLGLDFGEKLYSLKSEPLKPFFTLPDGDSASRSFNTSESKVEFKAQDTISRGSDDSVPVIS
FKDAAFDDVSGTDEGRDLLVNLPGELSTREAAAMGPTKFTQTNIGIENKLLLEAPDVLCLRLSTEQC
QAHEEKGIEELSDPSGPKSYSITEKHQAQEDPRMLFVAVDHSSSGDMSLLPSSDPKFQGLGVVESAVT
ANNTEESLFRICPLSGANEYIASTDLKTEEVLLFTDQDDLAKEEPTSLFQRDSETKGESGLVLEGD
KEIHQIFEDLDKKLALASRFYIPEGCIQRWAAEMVVALDALHREGIVCRDLNPNINLLNDRGHIQLTYF
SRWSEVEDSCSDAIERMYCAPEVGAITEETEACDWWSLGAVLFELLTGKTLVECHPAGINTHTTLNMP
ECVSEEARSLIQQLLQFNPLERLGAGVAGVEDIKSHPFFTPVDWAEMLR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRTFLSRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

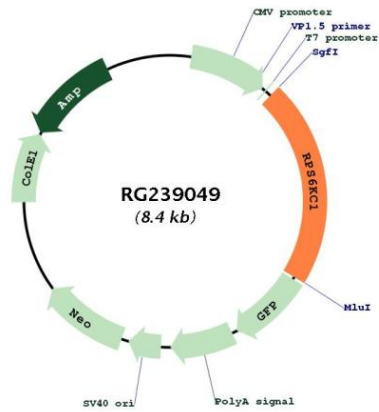
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


- 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).
- 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]

Product images:



Circular map for RG239049