

Product datasheet for **SC318476**

RPS6KC1 (NM_012424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS6KC1 (NM_012424) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS6KC1
Synonyms:	humS6PKh1; RPK118; RSKL1; S6K-delta-1; S6PKh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318476 representing NM_012424. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCTTTACCGGGAGCGGAGTGCCGACCTGGCCGTTTCTACTGTCAACGAGCCCGACGACAC
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CCTGCTGAAGCTCACTCAGATTCCTCATTGATACCTTTCTGAGTGTAGTACGGAAGGCTCTCCAGT
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GAATGTACTACTAGTTATTTAACATTATGCAATGAATATGGGCAAGAAAAGATTGAACCAGGGTCTTTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012424
- Insert Size:** 3201 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
- 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_012424.2](#)

RefSeq Size: 4219 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

MW: 118.7 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]

Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.