

## Product datasheet for **RC232768**

### **S6K1 (RPS6KB1) (NM\_001272043) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	S6K1 (RPS6KB1) (NM_001272043) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS6KB1
Synonyms:	p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232768 representing NM\_001272043  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGCACGAAGGAGCGGGACGGCTTTTACCCAGCCCCGACTTCCGAGACAGGGAAGCTGAGGACA  
 TGGCAGGAGTGTTTGACATAGACCTGGACCAGCCAGAGGACGCGGGCTCTGAGGATGAGCTGGAGGAGGG  
 GGGTCAGTTAAATGAAAGCATGGACCATGGGGAGTTGGACCATATGAACTTGGCATGGAACATTGTGAG  
 AAATTTGAAATCTCAGAACTAGTGTGAACAGAGGGCCAGAAAAAATCAGACCAGAATGTTTTGAGCTAC  
 TTCGGGACTTGGTAAAGGGGGCTATGGAAGGTTTTTCAAGTACGAAAAGTAACAGGAGCAAATACTGG  
 GAAAAATTTGCCATGAAGGTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATACA  
 AAAGCAGAACGGAATATTCTGGAGGAAGTAAAGCATCCCTTCATCGTGGATTTAATTTATGCCTTTCAGA  
 CTGGTGGAAAACCTACCTCATCCTTGAGTATCTCAGTGGAGGAGAACTATTTATGCAGTTAGAAAGAGA  
 GGGAAATTTTATGGAAGACACTGCCTGCTTTTACTTGGCAGAAAATCTCCATGGCTTTGGGGCATTACAT  
 CAAAAGGGGATCATCTACAGAGACCTGAAGCCGGAAGAATATCATGCTTAATCACCAAGGTCATGTGAAAC  
 TAACAGACTTTGGACTATGCAAAGAATCTATTCATGATGGAACAGTCACACACACATTTTGTGGAACAAT  
 AGAATACATGGCCCTGAAATCTTGATGAGAAGTGGCCACAATCGTGTGTGGATTGGTGGAGTTTGGGA  
 GCATTAATGTATGACATGCTGACTGGAGCACCCCACTTCACTGGGAGAAATAGAAAGAAAACAATTGACA  
 AAATCCTCAAATGTAACTCAATTTGCCTCCCTACCTCACACAAGAAGCCAGAGATCTGCTTAAAAAGCT  
 GCTGAAAAGAAATGCTGCTTCTCGTCTGGGAGCTGGTCTGGGGACGCTGGAGAAGTTCAAGCTCATCCA  
 TTCTTTAGACACATTAAGTGGGAAGAATCTGGCTCGAAAGGTGGAGCCCCCTTAAACCTCTGTTGC  
 AATCTGAAGAGGATGTAAGTCAAGTTTGATTCCAAGTTTACACGTACAGACACCTGTCGACAGCCCAGATGA  
 CCAACTCTCAGTAAAAGTGCCAAATCAGGTCTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAA  
 AGTGTGAAAAGAAAAGTTTTCTTTGAACCAAAAAATCCGATCACCTCGAAGATTTATTGGCAGCCCACGAA  
 CACCTGTCAGTACTGCTATGTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232768 representing NM\_001272043  
 Red=Cloning site Green=Tags(s)

MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLDPEDAGSEDELEEGQLNESMDHGGVGPYELGMEHCE  
 KFEISETSVNRGPEKIRPECFELLRLVLGKGGYGVFQVRKVTGANTGKIFAMKVLKAMIVRNAKDTAHT  
 KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDTACFYLAEISMALGHLH  
 QKGIYRDLKPENIMLNHQGHVCLDFGLCKESIHDGTVHTFCGTIEYMAPEILMRSGHNRAVDWWSLG  
 ALMYDMLTGAPPFTGENRKKTIKILKCKLNLPPYL TQEARDLLKLLKRNAASRLGAGPGDAGEVQHP  
 FFRHINWEELLARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDSTLSESANQVFLGFTYVAPSVLE  
 SVKEKFSFEPKIRSPRRFIGSPRTPVSTAMC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001272043.2</a>
<b>RefSeq Size:</b>	4332 bp
<b>RefSeq ORF:</b>	1356 bp
<b>Locus ID:</b>	6198
<b>UniProt ID:</b>	<a href="#">P23443</a>
<b>Cytogenetics:</b>	17q23.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Acute myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, mTOR signaling pathway, TGF-beta signaling pathway
<b>MW:</b>	51.5 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]</p>