

## Product datasheet for **SC105680**

### **S6K1 (RPS6KB1) (NM\_003161) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	S6K1 (RPS6KB1) (NM_003161) Human Untagged Clone
Tag:	Tag Free
Symbol:	S6K1
Synonyms:	p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_003161 edited  
 ATGAGGCGACGAAGGAGGCGGGACGGCTTTTACCCAGCCCCGGACTTCCGAGACAGGGAA  
 GCTGAGGACATGGCAGGAGTGTGGACATAGACCTGGACCAGCCAGAGGACGCGGGCTCT  
 GAGGATGAGCTGGAGGAGGGGGTCAAGTAAATGAAAGCATGGACCATGGGGGAGTTGGA  
 CCATATGAACTTGGCATGGAACATTGTGAGAAATTTGAAATCTCAGAACTAGTGTGAAC  
 AGAGGGCCAGAAAAATCAGACCAGAATGTTTTGAGCTACTTCGGGACTTGGTAAAGGG  
 GGCTATGAAAAGTTTTTCAAGTACGAAAAGTAACAGGAGCAAATACTGGGAAAAATTTT  
 GCCATGAAGGTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATACA  
 AAAGCAGAACGGAATATTCTGGAGGAAGTAAAGCATCCCTTCATCGTGGATTTAATTTAT  
 GCCTTTCAGACTGGTGGAAAACTCTACCTCATCCTTGAGTATCTCAGTGGAGGAGAACTA  
 TTTATGCAGTTAGAAAGAGAGGGAATTTTATGGAAGACTGCCTGCTTTTACTTGGCA  
 GAAATCTCCATGGCTTTGGGGCATTACATCAAAGGGGATCATCTACAGAGACCTGAAG  
 CCGGAGAATATCATGCTTAATCACCAAGGTCATGTGAACTAACAGACTTTGGACTATGC  
 AAAGAATCTATTCATGATGGAACAGTACACACACATTTTGTGGAACAATAGAATACATG  
 GCCCTGAAATCTTGATGAGAAGTGGCCACAATCGTGTGGATTGGTGGAGTTTGGGA  
 GCATTAATGTATGACATGCTGACTGGAGCACCCCATTCCTGGGAGAAATAGAAAGAAA  
 ACAATTGACAAAACTCTCAAATGTAAGTCAATTTGCCTCCCTACCTCACACAAGAGCC  
 AGAGATCTGCTTAAAAAGCTGCTGAAAAGAAATGCTGCTTCTCGTCTGGGAGCTGGTCT  
 GGGGACGCTGGAGAAGTTCAAGCTCATCCATTCTTTAGACACATTAAGTGGGAAGAACTT  
 CTGGCTCGAAAGTGGAGCCCCCTTTAAACCTCTGTTGCAATCTGAAGAGGATGTAAGT  
 CAGTTTGATTCCAAGTTTACACGTCAGACACCTGTGACAGCCAGATGACTCAACTCTC  
 AGTGAAAGTGCCAATCAGGTCTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAA  
 AGTGTGAAAAGAAAAGTTTTCTTTGAACCAAAAATCCGATCACCTCGAAGATTTATTGGC  
 AGCCACGAAACCTGTGACCCAGTCAAATTTCTCCTGGGGATTTCTGGGGAAGAGGT  
 GCTTCGGCCAGCAGCAAAATCCTCAGACACCTGTGGAATACCAATGGAACAAGTGGC  
 ATAGAGCAGATGGATGTGACAATGAGTGGGGAAGCATCGGCACCCTTCCAATACGACAG  
 CCGAACTCTGGGCATACAAAAACAAGCTTTTCCCATGATCTCCAAACGGCCAGAGCAC  
 CTGCGTATGAATCTATGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003161 unedited  
 NGTCGGTTTTTGTATACGACTCCTATAGCGCGCCGNAATTCGCACGAGGCGGTGATGG  
 CCGCAGCGGCTGTGGTGGCTGCGGCGGGTCCGGGCCATGAGGCGACGAAGGAGGCGGGA  
 CGGCTTTTACCCAGCCCCGGACTTCCGAGACAGGGAAGCTGAGGACATGGCAGGAGTGT  
 TGACATAGACCTGGACCAGCCAGAGGACGCGGGCTCTGAGGATGAGCTGGAGGAGGGGG  
 TCAGTTAAATGAAAGCATGGACCATGGGGGAGTTGGACCATATGAACTTGGCATGGAACA  
 TTGTGAGAAATTTGAAATCTCAGAACTAGTGTGAACAGAGGGCCAGAAAAATCAGACC  
 AGAATGTTTTGAGCTACTTCGGTACTTGGTAAAGGGGGCTATGGAAGGTTTTTCAAGT  
 ACGAAAAGTAACAGGAGCAAATACTGGGAAAATATTTGCCATGAAGGTGCTTAAAAAGGC  
 AATGATAGTAAGAAATGCTAAAGATACAGCTCATACAAAAGCAGAACGGAATATTCTGGA  
 GGAAGTAAAGCATCCCTTCATCGTGGATTTAATTTATGCCTTTCAGACTGGTGGAAAACT  
 CTACCTCATCCTTGAGTATCTCAGTGGAGGAGAACTATTTATGCAGTTAGAAAGAGGG  
 AATATTTATGGAAGACTGCCTGCTTTTACTTGGCAGAAATCTCCATGGCTTTGGGGCA  
 TTTACATCANAAGGGATCATCTACAGAGACCTGAAGCCGAGAAATATCATGCTTAATCA  
 CCAAGGTCATGTGAACTAACAGACTTTGGACTATGCAAAGAATCTATTCATGATGGAA  
 CAGTCACACACCCATTTNTGTGGAACATAGAATACATGGCCCTGAAATCTGATGAGAA  
 GTGCCACATCGTCTGGGATGNGGC



RefSeq ORF:	1578 bp
Locus ID:	6198
UniProt ID:	<a href="#">P23443</a>
Cytogenetics:	17q23.1
Domains:	pkinase, S_TK_X, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, mTOR signaling pathway, TGF-beta signaling pathway
Gene Summary:	<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> <p>Transcript Variant: This variant (1) can initiate translation from two alternate in-frame AUG start codons. The isoform represented in this RefSeq (a, also known as p85 or alpha I) is derived from the first AUG start codon, and is the longest isoform. 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.</p>