

Product datasheet for **RG217324**

S6K1 (RPS6KB1) (NM_003161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S6K1 (RPS6KB1) (NM_003161) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	S6K1
Synonyms:	p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG217324 representing NM_003161
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGCAGCAAGGAGCGGGACGGCTTTTACCCAGCCCCGACTTCCGAGACAGGGAAGCTGAGGACA
 TGGCAGGAGTGTTTGACATAGACCTGGACCAGCCAGAGGACGCGGCTCTGAGGATGAGCTGGAGGAGGG
 GGGTCAGTTAAATGAAAGCATGGACCATGGGGAGTTGGACCATATGAACTTGGCATGGAACATTGTGAG
 AAATTTGAAATCTCAGAACTAGTGTGAACAGAGGGCCAGAAAAAATCAGACCAGAATGTTTTGAGCTAC
 TTCGGGACTTGGTAAAGGGGGCTATGGAAGGTTTTTCAAGTACGAAAAGTAACAGGAGCAAATACTGG
 GAAAAATTTGCCATGAAGGTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATACA
 AAAGCAGAACGGAATATTCTGGAGGAAGTAAAGCATCCCTTCATCGTGGATTTAATTTATGCCTTTCAGA
 CTGGTGGAAAACCTACCTCATCTTGGTATCTCAGTGGAGGAGAACTATTTATGCAGTTAGAAAGAGA
 GGAATATTTATGGAAGACACTGCCTGCTTTTACTTGGCAGAAAATCTCCATGGCTTTGGGGCATTACAT
 CAAAAGGGGATCATCTACAGAGACCTGAAGCCGAGAATATCATGCTTAATCACCAAGGTCATGTGAAAC
 TAACAGACTTTGGACTATGCAAAGAATCTATTCATGATGGAACAGTCACACACACATTTTGTGGAACAAT
 AGAATACATGGCCCTGAAATCTTGATGAGAAGTGGCCACAATCGTGTGTTGGATTGGTGGAGTTTGGGA
 GCATTAATGATGACATGCTGACTGGAGCACCCCACTTCACTGGGGAGAAATAGAAAGAAAACAATTGACA
 AAATCCTCAAATGTAACCTCAATTTGCCTCCCTACCTCACACAAGAAGCCAGAGATCTGCTTAAAAAGCT
 GCTGAAAAGAAATGCTGCTTCTCGTCTGGGAGCTGGTCTGGGGACGCTGGAGAAGTTCAAGCTCATCCA
 TTCTTTAGACACATTAAGTGGGAAGAATCTGGCTCGAAAGTGGAGCCCCCTTTAAACCTCTGTTGC
 AATCTGAAGAGGATGTAAGTCAAGTTTCAAGTTTACACGTACAGACACCTGTCGACAGCCAGATGAA
 CTCAACTCTCAGTGAAGTGCCAATCAGTCTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAA
 AGTGTGAAAGAAAAGTTTTCTTTGAACCAAAAAATCCGATCACCTCGAAGATTTATTGGCAGCCACGAA
 CACCTGTCAGCCAGTCAAATTTCTCCTGGGATTTCTGGGAAGAGGTGCTTCGGCCAGCACAGCAAA
 TCCTCAGACACCTGTGGAATACCAATGGAACAAGTGGCATAGAGCAGATGGATGTGACAATGAGTGGG
 GAAGCATCGCCACTTCCAATACGACAGCCGAATCTGGGCCATACAAAAACAAGCTTTTCCCATGA
 TCTCCAAACGGCCAGAGCACCTGCGTATGAATCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217324 representing NM_003161
 Red=Cloning site Green=Tags(s)

MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLQPEDAGSEDELEEGQLNESMDHGGVGPYELGMEHCE
 KFEISETSVNRGPEKIRPECFELLRLVKGKGYGKVFQVRKVTGANTGKIFAMKVLKKAMIVRNAKDTAHT
 KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDTACFYLAEISMLGHLH
 QKGIYRDLKPENIMLNHQGHVKLTDGLCKESIHDGTVHTFCGTIEYMAPEILMRSGHNRAVDWWSLG
 ALMYDMLTGAPPFTGENRKTIDKILKCKLNLPPYLQEARDLLKLLKRNAASRLGAGPGDAGEVQHP
 FFRHINWEELLARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDSTLSEANQVFLGFTYVAPSVLE
 SVKEKFSFEPKIRSPRRFIGSPRTPVSPVKFSPGDFWGRGASASTANPQTPVEYPMETSGIEQMDVTMSG
 EASAPLPIRQPNISGPYKQAFPMISKREHLRMNL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003161

ORF Size: 1575 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

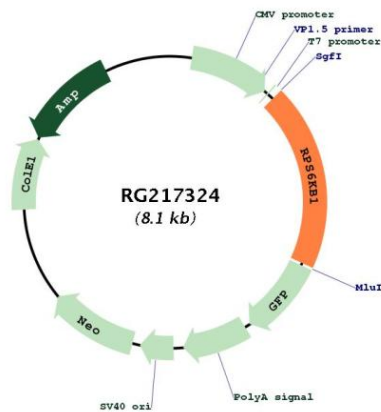
Reconstitution Method:

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_003161.4](#)

RefSeq Size:	5332 bp
RefSeq ORF:	1578 bp
Locus ID:	6198
UniProt ID:	P23443
Cytogenetics:	17q23.1
Domains:	pkinese, 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:	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]

Product images:



Circular map for RG217324