

Product datasheet for **RG232768**

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:	TurboGFP
Symbol:	RPS6KB1
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)



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ORF Nucleotide Sequence:

>RG232768 representing NM_001272043
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGCAGCAAGGAGCGGGACGGCTTTTACCCAGCCCGGACTTCCGAGACAGGGAAGCTGAGGACA
 TGGCAGGAGTGTTTGACATAGACCTGGACCAGCCAGAGGACGCGGGCTCTGAGGATGAGCTGGAGGAGGG
 GGGTCAGTTAAATGAAAGCATGGACCATGGGGAGTTGGACCATATGAACTTGGCATGGAACATTGTGAG
 AAATTTGAAATCTCAGAACTAGTGTGAACAGAGGGCCAGAAAAAATCAGACCAGAATGTTTTGAGCTAC
 TTCGGGACTTGGTAAAGGGGGCTATGGAAAGTTTTTCAAGTACGAAAAGTAACAGGAGCAAATACTGG
 GAAAAATTTGCCATGAAGGTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATACA
 AAAGCAGAACGGAATATTCTGGAGGAAGTAAAGCATCCCTTCATCGTGGATTTAATTTATGCCTTTCAGA
 CTGGTGGAAAACCTACCTCATCTTGTAGTATCTCAGTGGAGGAGAACTATTTATGCAGTTAGAAAGAGA
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 CAAAAGGGGATCATCTACAGAGACCTGAAGCCGAGAATATCATGCTTAATCACCAAGGTCATGTGAAAC
 TAACAGACTTTGGACTATGCAAAGAATCTATTCATGATGGAACAGTCACACACACATTTTGTGGAACAAT
 AGAATACATGGCCCTGAAATCTTGATGAGAAGTGGCCACAATCGTGTGTGGATTGGTGGAGTTTGGGA
 GCATTAATGTATGACATGCTGACTGGAGCACCCCACTTCACTGGGGAGAAATAGAAAGAAAACAATTGACA
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 GCTGAAAAGAAATGCTGCTTCTCGTCTGGGAGCTGGTCTGGGGACGCTGGAGAAGTTCAAGCTCATCCA
 TTCTTTAGACACATTAAGTGAAGCACTTCTGGCTCGAAAGGTGGAGCCCCCTTAAACCTCTGTTGC
 AATCTGAAGAGGATGTAAGTCAGTTTGATTCCAAGTTTACACGTCAGACACCTGTCGACAGCCAGATGA
 CTCAACTCTCAGTGAAGTGCCAATCAGGTCTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAA
 AGTGTGAAAAGAAAAGTTTTCTTTGAACCAAAAAATCCGATCACCTCGAAGATTTATTGGCAGCCACGAA
 CACCTGTCAGTACTGCTATGTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232768 representing NM_001272043
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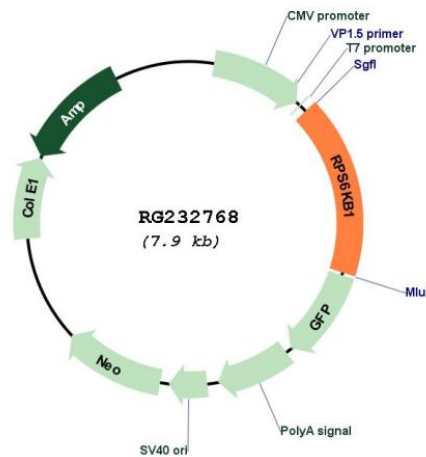
MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLQPEDAGSEDELEEGGQLNESMDHGGVGPYELGMEHCE
 KFEISETSVNRGPEKIRPECFELLRVLGKGGYGVFQVRKVTGANTGKIFAMKVLKKAMIVRNAKDTAHT
 KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDITACFYLAEISMLGHLH
 QKGIYRDLKPENIMLNHQGHVCLDFGLCKESIHDGTVTHTFCGTIEYMAPEILMRSGHNRAVDWWSLG
 ALMYDMLTGAPPFTGENRKKIDKILKCKLNLPPYL TQEARDLLKLLKRNAASRLGAGPGDAGEVQHP
 FFRHINWEEELLARKVEPPFKPLLQSEEDVSQFDSKFRQTPVDSRDDSTLSESANQVFLGFYVAPSVLE
 SVKEKFSFEPKIRSPRRFIGSPRTPVSTAMC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001272043

ORF Size: 1353 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001272043.2
RefSeq Size:	4332 bp
RefSeq ORF:	1356 bp
Locus ID:	6198
UniProt ID:	P23443
Cytogenetics:	17q23.1
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]