

Product datasheet for **RC232806**

S6K1 (RPS6KB1) (NM_001272044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S6K1 (RPS6KB1) (NM_001272044) 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:

>RC232806 representing NM_001272044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCATGGGGGAGTTGGACCATATGAACCTGGCATGGAACATTGTGAGAAATTTGAAATCTCAGAAA
 CTAGTGTGAACAGAGGGCCAGAAAAATCAGACCAGAATGTTTTGAGCTACTTCGGTACTTGGTAAAGG
 GGGCTATGAAAAGGTTTTTCAAGTACGAAAAGTAAACAGGAGCAAATACTGGGAAAATATTTGCCATGAAG
 GTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATAAAAAGCAGAACGGAATATTC
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 GGGAGAAGTCTGGCTCGAAAGGTGGAGCCCCCTTTAAACCTCTGTTGCAATCTGAAGAGGATGTAAG
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 GCCAATCAGGCTTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAAGTGTGAAAGAAAAGTTTT
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 ATTTTCTCTGGGATTTCTGGGAAGAGGTGCTTCGGCCAGCAGCAAATCCTCAGACACCTGTGGAA
 TACCAATGGAACAAGTGGCATAGAGCAGATGGATGTGACAATGAGTGGGAAGCATCGCACCCTTC
 CAATACGACAGCCGAACCTCTGGGCCATACAAAAACAAGCTTTTCCCATGATCTCCAACGGCCAGAGCA
 CCTGCGTATGAATCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232806 representing NM_001272044
 Red=Cloning site Green=Tags(s)

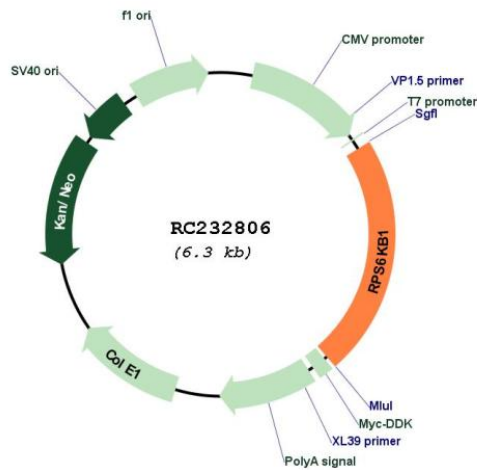
MDHGGVGPYELGMEHCEKFEISETSVNRGPEKIRPECFELLRVLGKGGYGVFQVRKVTGANTGKIFAMK
 VLKKAMIVRNAKDTAHTKAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMED
 TACFYLAEISMLGHLHQGIIYRDLKPENIMLNHQGHVCLDFGLCKESIHDGTVHTFCGTIEYMAPE
 ILMRSGHNRAVDWWSL GALMYDMLTGAPPFTGENRKKIDKILKCKLNLPPYL TQEARDLLKLLKRNA
 SRLGAGPGDAGEVQAHPFFRHINWEE LLARKVEPPFKPLLQSEEDVVSQFDSKFRQTPVDSRDDSTLSES
 ANQVFLGFTYVAPSVLESVKEKFSFEPKIRSPRRF IGSPRTPVSPVKFSPGDFWGRGASASTANPQTPVE
 YPMETSGIEQMDVTMSGEASAPLPIRQPNNSGPYKKQAFPMISKRPEHLRMNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001272044

ORF Size: 1416 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_001272044.1 , NP_001258973.1
RefSeq Size:	5497 bp
RefSeq ORF:	1419 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
MW:	53.4 kDa
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>