

Product datasheet for **RC200525**

P70 S6 Kinase beta (RPS6KB2) (NM_003952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P70 S6 Kinase beta (RPS6KB2) (NM_003952) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS6KB2
Synonyms:	KLS; p70(S6K)-beta; P70-beta; P70-beta-1; P70-beta-2; p70S6Kb; S6K-beta2; S6K2; S6KB; S6Kbeta; S6KI(2); SRK; STK14B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC200525 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCTGTTTGGATTGGAGACGGAGGAAGGCAGCGAGGGCGAGGGCGAGCCAGAGCTCA
 GCCCGCGGACGCATGTCCCTTGCCGAGTTGAGGGCAGCTGGCCTAGAGCCTGTGGGACTATGAAGA
 GGTGGAGCTGACTGAGACCAGCGTGAACGTTGGCCAGAGCGCATCGGGCCCACTGCTTTGAGCTGCTG
 CGTGTGCTGGCAAGGGGGCTATGGCAAGGTGTTCCAGGTGCGAAAGGTGCAAGGCACCAACTGGGCA
 AAATATATGCCATGAAAGTCCTAAGGAAGGCCAAAATTGTGCGCAATGCCAAGGACACAGCACACACG
 GGCTGAGCGGAACATTCTAGAGTCAGTGAAGCACCCCTTTATTGTGAACTGGCCTATGCCTCCAGACT
 GGTGGCAAACCTACCTCATCCTTGAGTGCCTCAGTGGTGGCGAGCTCTCACGCATCTGGAGCGAGAGG
 GCATCTTCTGGAAGATACGGCCTGCTTCTACCTGGCTGAGATCACGCTGGCCCTGGGCCATCTCCACTC
 CCAGGGCATCATCTACCGGGACCTCAAGCCCGAGAACATCATGCTCAGCAGCCAGGGCCACATCAAAGTG
 ACCGACTTTGGACTCTGCAAGGAGTCTATCCATGAGGGCGCCGCTCACTCACACCTTCTGCGGCACCAATTG
 AGTACATGGCCCTGAGATTCTGGTGCAGTGGCCACAACCGGGCTGTGGACTGGTGGAGCCTGGGGGC
 CCTGATGTACGACATGCTCACTGGATCGCCGCCCTTACCAGCAGAGAACCAGGAAAGAAACCATGGATAAG
 ATCATCAGGGCAAGCTGGCACTGCCCCCTACCTCACCCAGATGCCCGGGACCTTGTCAAAAAGTTTC
 TGAAACGGAATCCAGCCAGCGGATTGGGGGTGGCCAGGGGATGCTGCTGATGTGCAGAGACATCCCTT
 TTTCCGGCACATGAATTGGGACGACCTTCTGGCCTGGCGTGTGGACCCCTTTCAGGCCCTGTCTGCAG
 TCAGAGGAGGACGTGAGCCAGTTTATACCCGCTTACACGGCAGACGCCGCTGGACAGTCTGCTGATGACA
 CAGCCCTCAGCGAGAGTGCCAAACCAGGCCTTCTGGGCTTACACATACGTGGCGCCCTGTCTCTGGAG
 CATCAAGGAGGGCTTCTCCTTCCAGCCCAAGCTGCGCTCACCCAGGCGCCTCAACAGTAGCCCCGGGTC
 CCCGTCAGCCCCCTCAAGTTCTCCCTTTTGGGGTTTCGGCCAGCCCGAGCCTGCCGAGCCACGG
 AGCTACCTCTACCTCACTCCTGCCACCGCCGCCCTCGACCACCGCCCTCTCCCCATCCGTCCTCC
 CTCAGGGACCAAGAAGTCCAAGAGGGGCGTGGGCGTCCAGGGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200525 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVFDLDETEEGSEGEPELSPADACPLAELRAAGLEPVGHYEEVELTETSVNVGPERIGPHCFELL
 RVLGKGGYGVQVRKVQGTNLGKIYAMKVLKAKIVRNAKDTAHTRAERNILESVKHPFIVELAYAFQT
 GGKLYLILECLSGGELFTHLEREGIFLEDTACFYLAEITLALGHLHSQGIYRDLKPENIMLSSQGHKIL
 TDFGLCKESIHEGAVTHFCGTIEYMAPEILVRSGHNRVDWWSL GALMYDMLTGSPFFT AENRKKTMDK
 IIRGKLALPPYLTPDARDLVKFLKRNPSQRIGGGPGDAADVQRHPFFRHMNWDLLAWRVDPPFRPCLQ
 SEEDVSQFDTRFTRQTPVDSPDDTALSESANQAF LGFTYVAPSVLDSIKEGFSFQPKLRSPRRLNSSPRV
 PVSPLKFSPEGFRPSPSLPEPTELPLPPLLPPPPSTTAPLPIRPPSGTKKSKRGRGRPGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6081_a09.zip

Restriction Sites:

SgfI-MluI

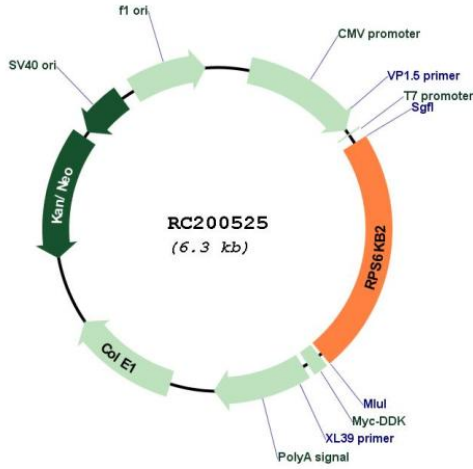
Cloning Scheme:

Cloning sites used for ORF Shuttling:



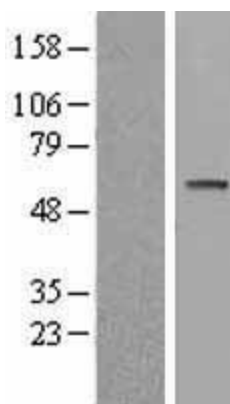
* The last codon before the Stop codon of the ORF

Plasmid Map:

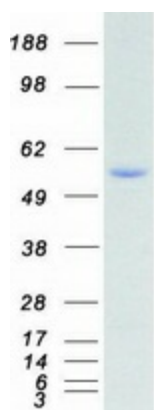


ACCN:	NM_003952
ORF Size:	1446 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
RefSeq:	NM_003952.2 , NP_003943.2
RefSeq Size:	1782 bp
RefSeq ORF:	1449 bp
Locus ID:	6199
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
MW:	53.5 kDa
Gene Summary:	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains a kinase catalytic domain and phosphorylates the S6 ribosomal protein and eukaryotic translation initiation factor 4B (eIF4B). Phosphorylation of S6 leads to an increase in protein synthesis and cell proliferation. [provided by RefSeq, Jan 2015]

Product images:



Western blot validation of overexpression lysate (Cat# [LY401298]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200525 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RPS6KB2 protein (Cat# [TP300525]). The protein was produced from HEK293T cells transfected with RPS6KB2 cDNA clone (Cat# RC200525) using MegaTran 2.0 (Cat# [TT210002]).