

## Product datasheet for **RR211756**

### **Rps6kb1 (NM\_031985) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rps6kb1 (NM_031985) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rps6kb1
Synonyms:	p70 S6K-alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR211756 representing NM\_031985  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGCAGCAGCGAGCGGGACGGCTTTTACCCAGCGCCTGACTTCCGACACAGGGAAGCTGAGGACA  
 TGGCAGGAGTGTTTGACATAGACCTGGACCAGCCAGAGGATGCAGGCTCTGAGGATGAGCTGGAGGAGGG  
 GGGTCAGTTAAATGAAAGCATGGACCATGGGGAGTTGGACCATATGAACTTGGCATGGAACATTGTGAG  
 AAATTTGAAATCTCAGAACTAGTGTGAACAGAGGGCCAGAAAAAATCAGACCAGAATGTTTTGAGCTAC  
 TTCGGGTACTTGGTAAAGGGGGCTATGGAAAGTTTTTCAAGTACGAAAAGTAACAGGAGCAAATACTGG  
 GAAGATATTTGCCATGAAGGTGCTTAAAAAGGCAATGATAGTAAGAAATGCTAAAGATACAGCTCATACA  
 AAAGCAGAGCGGAATATTCTGGAGGAAGTAAAGCATCCCTTCATTGTGGATTTAATTTATGCCTTTCAGA  
 CCGGTGGAAAACCTACCTCATCCTTGAGTATCTCAGTGGAGGAGAACTATTTATGCAGTTAGAAAGAGA  
 GGGGATATTCATGGAAGATACAGCTTGCTTTTACTTGGCTGAAAATCTCCATGGCTTTGGGGCATTACAT  
 CAAAAGGGGATTACTACAGAGACCTGAAGCCGGAGAACATCATGCTTAATCACCAAGGTCACGTGAAGC  
 TGACAGACTTTGGACTATGCAAAGAATCTATTCATGATGGAACAGTCACGCACACATTTTGTGGAACAAT  
 AGAATACATGGCCCTGAAATCTTGATGAGAAGCGGCCACAACCGTGCTGTGGATTGGTGGAGTCTGGGA  
 GCATTAATGTATGACATGCTGACTGGAGCACCTCCATTCCTGGGGAGAAATAGAAAGAAGACAATTGACA  
 AAATCCTCAAATGTAACTTAATTTGCCTCCCTACCTCACACAAGAAGCTCGAGATCTGCTTAAAAAGCT  
 GCTGAAGAGAAAATGCTGCTTCTCGTCTTGGAGCTGGCCCTGGGGATGCTGGAGAAGTCCAAGCGCATCCA  
 TTTTTTAGACACATTAAGTGGGAAGAGCTTTTGGCTCGGAAGTGGAGCGCCCTTAAAGCCTCTGTTGC  
 AACTCTGAAGAGGATGTGAGTCAGTTTGATTCAAAGTTTACTCGTCAGACACCTGTTGACAGCCCCGATGA  
 CTCAACTCTCAGTGAAAGTGCCAACCAAGTCTTTCTGGGTTTTACATATGTGGCTCCATCTGTACTTGAA  
 AGTGTGAAAGAAAAGTTTTCTTTTGAACCAAAAATCCGATCGCCTCGAAGATTTATTGGTAGCCACGAA  
 CGCCTGTGAGCCAGTCAAATCTCCTGGGATTTCTGGGACGAGGTGCTTCAGCCAGCACAGCAAA  
 TCCTCAGACACCTGTGGAATACCAATGGAACAAGTGAATAGAGCAGATGGATGTGACAACGAGCGGG  
 GAAGCTTCAGCGCCACTTCCAATCCGACAGCCAACTCTGGGCCATACAAAAACAAGCTTTTCTATGA  
 TCTCCAAACGGCCAGAGCACCTGCGTATGAATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211756 representing NM\_031985  
 Red=Cloning site Green=Tags(s)

MRRRRRRDGFYPAPDFRHRHREAEDMAGVFDIDLQPEDAGSEDELEEGQLNESMDHGGVGPYELGMEHCE  
 KFEISETSVNRGPEKIRPECFELLRVLKGGYGVKVFQVRKVTGANTGKIFAMKVLKKAMIVRNAKDTAHT  
 KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDTACFYLAEISMLGHLH  
 QKGIYRDLKPENIMLNHQGHVKLTDGLCKESIHDGTVHTFCGTIEYMAPEILMRSGHNRAVDWWSLG  
 ALMYDMLTGAPPFTGENRKKIDKILKCKLNLPPYLQEARDLLKLLKRNAASRLGAGPGDAGEVQHP  
 FFRHINWEELLARKVERPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDSTLSEANQVFLGFTYVAPSVLE  
 SVKEKFSFEPKIRSPRRFIGSPRTPVSPVKFSPGDFWGRGASASTANPQTVEYPMETSGIEQMDVTTSG  
 EASAPLPIRQPNSGPYKKQAFPMISKRPEHLRMNL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_031985

**ORF Size:** 1575 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:**
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\\_031985.1](#), [NP\\_114191.1](#)

**RefSeq Size:** 2287 bp

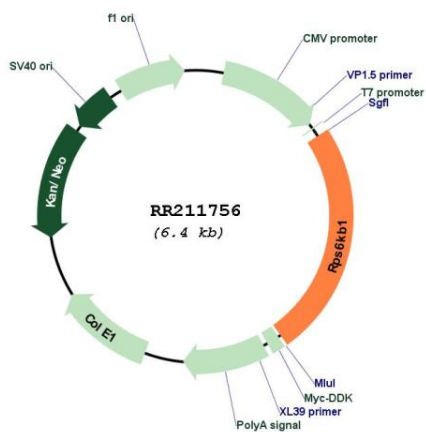
**RefSeq ORF:** 1578 bp

**Locus ID:** 83840

**UniProt ID:** [P67999](#)

Cytogenetics: 10q26  
 MW: 59.2 kDa  
 Gene Summary: may play a role in response to oxidative stress [RGD, Feb 2006]

**Product images:**



Circular map for RR211756