

Product datasheet for **MC216666**

Rps6kb2 (NM_021485) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6kb2 (NM_021485) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rps6kb2
Synonyms:	70kDa; S6K-beta-2; S6K2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216666 representing NM_021485
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCGTATTTGATTTAGACTTGGAGACCGAGGAAGGGAGCGAGGGCGAGGGCGAACC GGAGTTCA
 GCCCTGCGGACGTGTGTCCCTTGGCGAATTAAGGGCTGCTGGCCTGGAGACAGTGGGACACTATGAAGA
 AGTAGAGCTGACAGAGAGCAGCGTGAACCTGGGTCTGAGCGCATCGGGCCCCACTGCTTTGAGCTACTG
 AGTGTACTGGCAAGGGGGGCTATGGCAAGGTGTTCCAGGTGAGAAAAGTGAAGGCACCAACTGGGAA
 AAATATATGCCATGAAGGTCTTAAGGAAGGCCAAGATTGTATGCAGTGCCAAGGACACAGCCCATACCCG
 GGCTGAGAGGAACATTCTAGAATCTGTGAAGCATCCCTTCATTGTAGAAGTGGCCTATGCTTTCCAGACA
 GGTGGCAAACCTACCTCATCTGGAGTGCCTCAGTGGTGGTGGAGCTCTCACACATCTTGAGCGAGAAG
 GCATCTTCTGGAAGACACAGCCTGCTTCTACCTGGCAGAGATCACACTAGCCCTGGGCCATCTCCATTC
 CCACGGCATCATCTACCGGGACCTCAAGCCTGAGAACATCATGCTCAGCAGCCAGGGCCACATCAAAGT
 ACAGACTTTGGACTTTGCAAGGAGTCCATTCATGAGGGTGTATCACTCACACCTTCTGTGGCACCATTG
 AGTACATGGCCCCAGAGATTCTAGTGCCTACTGGTGCACAAACCGGGCAGTGGACTGGTGGAGCCTGGGAGC
 CCTGATGTACGACATGCTCACTGGATCGCCGCCCTTCACTGCAGAGAACC GGAAGAAAATATGGATAAA
 ATCATTAAAGGGAAGCTGGTGTGCCCCCTACCTCACCCGGATGCCCGGGACCTTGCCAAAAGTTTC
 TGAAGCGGAACCCCACTCAGCGAATTGGGGTGGCCTGGGAGATGCTGCTGATGTCCAGAGGCACCCCTT
 TTTCCGGCACATCAATTGGGATGATCTCTTGGCCCGCGCTGGACCCTCCCTTCAGGCCAAGTCTGCAA
 TCAGAAGAGGATGTGAGCCAGTTTGTGACGATTACACACGGCAGACCGCGGTAGATAGTCCAGATGACA
 CAGCCCTCAGTGAGAGTGCCAACCAAGCCTTCTGGGCTTACATATGTGGCACCTTCTGTCTCTGGACAG
 CATCAAAGAGGGCTTCTCCTTCCAGCCCAAGCTGCGTTCTCCAGACGCCTTAACAGCAGTCCCCGCACC
 CCCATCAGCCCCCTCAAGTTCTCTCCCTTGGAGGGTTCCGGCCAGTCCCGGCCACCAGAGCCCATGG
 AGCCATCTCTACCTCCACTCCTACCATCACCACCATCACCACCACCCACAAGCACTGCCCCCTTCCCAT
 CCGTCTCCCTCAGGAACCAAGAAGTCCAAGAAGGGACGGGGCCGCTCAGGGCGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_021485
- Insert Size:** 1458 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_021485.2](#), [NP_067460.1](#)

RefSeq Size: 1491 bp

RefSeq ORF: 1458 bp

Locus ID: 58988

UniProt ID: [Q9Z1M4](#)

Cytogenetics: 19 A

Gene Summary: Phosphorylates specifically ribosomal protein S6. Seems to act downstream of mTOR signaling in response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycle progression in an alternative pathway regulated by MEAK7.[UniProtKB/Swiss-Prot Function]