

Product datasheet for MR204038

Rps6kb2 (BC066842) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6kb2 (BC066842) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rps6kb2
Synonyms:	S6K2, 70kDa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204038 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCCGTATTTGATTTAGACTTGGAGACCGAGGAAGGGAGCGAGGGCGAGGGCGAACC GGAGTTCA
GCCCTGCGGACGTGTGTCCCTTGGCGAATTAAGGGCTGCTGGCCTGGAGACAGTGGGACACTATGAAGA
AGTAGAGCTGACAGAGAGCAGCGTGAACCTGGGTCTGAGCGCAACGGGCCCACTGCTTTGAGCTACTG
AGTGTACTGGCAAGGGGGCTATGGCAAGGTGTTCCAGGTGAGAAAAGTGAAGGCACCAACTTGGGAA
AAATATATGCCATGAAGTCTTAAGGAAGGCCAAGATTGTATGCAGTGCCAAGGACACAGCCATACCCG
GGCTGAGAGGAACATTCTAGAATCTGTGAAGCATCCCTTCATTGTAGAAGTGGCCTATGCTTCCAGACA
GGTGGCAAACCTACCTCATCCTGGAGTGCCTCAGTGGTGGTGGAGCTCTTACACATCTTGGAGGAAAG
GCATCTTCTGGAAGACACAGCCTGCTTACCTGGCAGAGATCACACTAGCCCTGGGCCATCTCCATTC
CCACGGCATCATCTACCGGGACCTCAAGCCTGAGAACATCATGCTCAGCAGCCAGGGCCACATCAAAGT
ACAGACTTTGGACTTTGCAAGGAGTCCATTGAGGGTGGTATCACTCACACCTTCTGTGGCACCATTG
AGTACATGGCCCCAGAGATTCTAGTGGCACTGGTCAACCGGGCAGTGGACTGGTGGAGCCTGGGAGC
CCTGATGTACGACATGCTCACTGGATCGCAAGTCCAGCTTCTTGGGCGCAGGGTGGTGGTGGGAGA
TCCCTTCCAGTTGGGGCAGGACTGGGTGGGAGGACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204038 protein sequence
Red=Cloning site Green=Tags(s)

MAAVFDLDLETEEGSEGEPEFSPADVCPGLGELRAAGLETVGHYEEVELTESSVNLGPERNGPHCFELL
 SVLKGKGGYGVKVFQVRKVQGTNLGKIYAMKVLRKAKIVCSAKDTAHTRAERNILESVKHPFIVELAYAFQT
 GGKLYLILECLSGGELFTHLEREGIFLEDTACFYLAEITLALGHLHSHGIYRDLKPENIMLSSQGHIKL
 TDFGLCKESIHEGAIHTHTFCGTIEYMAPEILVRTGHNRAVDWWSL GALMYDMLTGSASPASLGAGWVLGR
 SLPGWGRTGWEDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC066842

ORF Size: 879 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: [BC066842](#), [AAH66842](#)

RefSeq Size: 2105 bp

RefSeq ORF: 881 bp

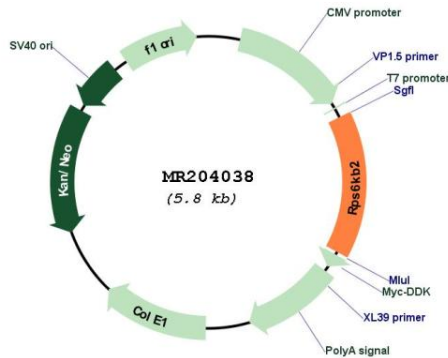
Locus ID: 58988

Cytogenetics: 19 A

MW: 32.1 kDa

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]

Product images:



Circular map for MR204038