

## Product datasheet for **RR217149**

### **Rps6ka2 (NM\_057128) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rps6ka2 (NM_057128) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rps6ka2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR217149 representing NM\_057128  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCTGAACATGAAGAAGTTCACGGTGCAGGTTCTTCTCAGTGTACCTGCGCAAGAAGTTCGCGCT  
 CCAAGAGCTCCAGTCTGAGTCGCCTCGAGGAAGAAGGCATCGTGAAGGAGATTGACATTAGCAGCCATGT  
 GAAGGAAGGCTTCGAGAAGGCAGACCCCTCCAGTTCGAGCTGCTAAAAGTTTTAGGACAAGGGTGTAT  
 GAAAGGTGTTCTTGGTGAAGAAAGTACAGGATCGGATGCTGGTTCAGCTCTACGCCATGAAAGTCTGA  
 AGAAAGCCACCTTGAAAGTGCGGGACCGGGTCCGGTCTAAGATGGAGAGAGATATCCTGGCAGAGGTGAA  
 TCACCCTTTCATCGTCAAGCTGCATTACGCCTTCAGACCGAAGGCAAGCTCTACCTGATCCTGGACTTC  
 CTGCGGGGAGGAGACCTTCCACAGGCTTCCAAAGAGGTGATGTTTACGGAGGAGGATGTTAAGTTCT  
 ACCTGGCTGAGCTGGCCTGGCTCTGGACCACCTCCACGGCTAGGGATCATCTACAGGGATCTGAAGCC  
 TGAATAATCCTCCTGGATGAAGAGGGACATATTAAGATCACAGATTTTGGCTTGAGCAAGGAGGCCATC  
 GACCATGACAAGAGAGCCTATTCATTTTGTGGACTATTGAATACATGGCGCCCGAGGTGGTGAACCGGC  
 GTGGACACACACAGAGTCTGACTGGTGGTCTTTGGTGTGCTCATGTTTCGAGATGCTCACAGGATCCCT  
 GCCGTTTCAGGGGAAGGACAGGAAGGAAACAATGGCCCTCATCCTCAAAGCCAAGCTGGGCATGCCTCAG  
 TTCCTCAGTGGGAGGCACAGAGCCTGCTGAGAGCCCTTTTCAAGCGGAATCCCTGTAACCGGCTAGGTG  
 CTGGTGTGACGGAGTGGAGGAAATTAACGTCACCCGTTCTTTGTCACCATAGACTGGAATAAGCTGTA  
 TCGCAAGGAAATCAAGCCACCTTCAAGCCAGCAGTGGGAAGGCTGAGGACACCTTCCACTTTGACCCC  
 GAGTTTACTGCAAGGACCCCAACAGACTCTCCTGGTGTCCCCCAAGTGCAAACGCCACCCACCTGTTCA  
 GGGGTTTCAGCTTTGTGGCTCCAGCCTGGTCCAGGAGCCTTCCAGCAAGAGCTGCCCAAGGCCCCCAT  
 TCACCCGATTGTGACGACAGTTACATGGGAACAATATCCACTTCACTGATGGCTACGAGATCAAGGAGGAC  
 ATCGGGGTGGGCTCCTACTCAGTGTGCAAGCGGTGTGTACACAAAGCCACGGATGCCGAGTACGCCGTGA  
 AGATCATCGATAAGAGCAAAAGGGATCCCTCAGAGGAGATTGAGATCCTCCTGCGGTATGGCCAACACCC  
 CAACATCATCACCTAAAAGATGTCTATGATGATGGAAAATACGTATACCTGGTGTGAGCTCATGCGA  
 GGTGGGGAGCTGCTGGACCGCATCCTCCGCCAGCGGTGCTTTCAGAGCGGGAGGCCAGTGTGCTGT  
 ACACCATCGCCAGGACCATGGACTACCTGCACTCCCAAGGGTGTTCATCGGGACCTGAAACCAAGTAA  
 CATTCTGTACATGGATGAATCTGGAACCCCGAATCTATCCGCATCTGTGACTTTGGGTTTGCCAAACAG  
 CTGCGAGCAGAAAATGGACTGCTCATGACCCCTGCTATACTGCGAACTTCGTGGCTCCTGAGGTCTCTGA  
 AGCGGCAAGGCTACGACGCAGCGTGTGATGTCTGGAGCCTGGGAATCCTGCTGTACACCATGCTGGCTGG  
 GTTCACCCCTTTTGCTAATGGGCCAGACGATACCCCGAGGAGATTCTGGCGAGGATTGGCAGTGGGAAG  
 TACGCCCTTTCTGGAGGAAACTGGGACTCCATATCGGATGCAGCAAAGGACGTCGTGTCCAAGATGCTCC  
 ACGTGGACCCGCAGCAACGCCTAACAGCAGTTCAGTGTGAAGCACCCATGGATCGTGAACAGAGAGTA  
 CCTATCCAAAACCAGCTGAGCAGACAGGACGTCATCTAGTGAAGGGTGCCATGGCAGCCACCTACTTT  
 GCTCTGAACAGGACCCCAAGGCCCGAGGCTGGAGCCTGTGCTCCTCTAGCTTGCCCAACGCAGAG  
 GCATGAAGAGACTCACGTCTACCCGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217149 representing NM\_057128  
 Red=Cloning site Green=Tags(s)

MELNMKKFTVRRFFSVYLRKKSRSKSSSLRLEEEGIVKEIDISSHVKEGF EKADPSQFELLKVLGQGSY  
 GKVFLVRKVTGSDAGQLYAMKVLKATLKVDRVRSKMERDILAEVNHPFIVKLHYAFQTEGKLYLILDF  
 LRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHGLGIYRDLKPENILLDEEGHIKITDFGLSKEAI  
 DHDKRAYSF CGTIEYMAPEV VNRGHTQSADWWSFGVLMFEMLTGSLPFQ GKDRKETMALILKAKLGMPQ  
 FLSAEAQSLLRALFKRNP CNRLGAGVDGV EIKRHPFFVTIDWNKLYRKEIKPPFKPAVGRPEDTFHFDP  
 EFTARTPTDSPGVP SANAHHLFRGFSFVASSLVQEPSQ QDVPKAPIHPIVQQLHGNNIHF TDGYEIKED  
 IGVGSYSYCKR CVHKATDAEYAVKIIDKSKRDPSEEIEILLRYGQHPNIITLKD VYDDGKYVYLMELMR  
 GGELLDRI LRQCF SEREASDVL YTIARTMDYLHSQGVVHRDLKPSNILYMDESGNPESIRICDFGFAKQ  
 LRAENGLLMTPCY TANFVAPEVLKRQGYDAACDVWSL GILLYTMLAGFTPFANGPDDTPEEILARIGSGK  
 YALSGGNWDSISDAAKDVSKMLHVDPQQR LTA VQVLKHPWIVNREYLSQNQLSRQDVHLVKGAMAATYF  
 ALNRTQPAPRLEPVLSSSLAQRGMKRLTSTRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_057128

**ORF Size:** 2199 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\\_057128.1](#), [NP\\_476469.1](#)

**RefSeq Size:** 5396 bp

**RefSeq ORF:** 2202 bp

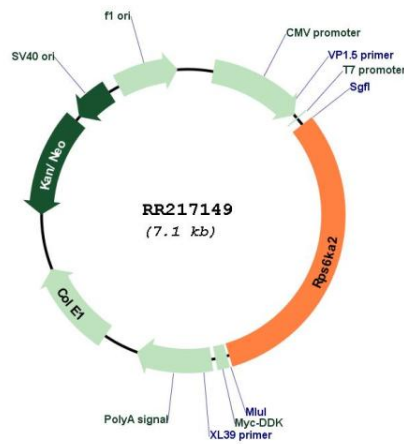
**Locus ID:** 117269

**Cytogenetics:** 1q12

**MW:** 83.2 kDa

**Gene Summary:** ribosomal protein; may be upregulated by the insulin signaling pathway in skeletal muscle [RGD, Feb 2006]

**Product images:**



Circular map for RR217149