

Product datasheet for **MR210349**

Rps6ka2 (NM_011299) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6ka2 (NM_011299) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rps6ka2
Synonyms:	90kDa; D17Wsu134e; p90rsk; pp90rsk; Rps6ka-rs1; Rsk3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210349 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTGAGCATGAAGAAGTTCACGGTGCAGGTTCTTCTCCGTGTACCTGCGCAAGAAGTCCGCGT
 CCAAGAGCTCCAGTCTGAGTCGCCTCGAGGAAGAAGGCATTGTGAAGGAGATTGACATTAGCAACCATGT
 GAAGGAAGGCTTTGAGAAGGCAGACCCCTCCAGTTCGAGCTACTAAAGTTTTAGGACAAGGGTCTGAT
 GAAAGGTGTTCTTGGTGAAGGTTACAGGATCAGACGCTGGTCACTACACCATGAAGTCTCTGA
 AGAAAGCCACCTTAAAGTGCAGACCGGGTCAAGTCTAAGATGGAGAGAGACATCTGGCAGAGGTGAA
 TCACCCTTTCATTGTCAAGCTGCATTATGCCTTCAGACCGAAGGCAAGCTCTACCTGATCTGGACTTC
 CTGCGGGGAGGTGACCTTCCACCAGGCTTCCAAAGAGGTGATGTTACGGAGGAGGATGTCAAGTCT
 ACCTGGCTGAGCTGGCCTGGCTCTAGACCACCTCCATGGCCTGGGGATCATCTACAGGGATCTGAAGCC
 AGAGAATATCCTCTGGATGAAGAGGGACACATTAAGATCACAGATTTTGGCTTGAGCAAGGAGGCCACC
 GACCATGACAAGAGACCTATTCATTCTGTGGGACTATTGAATACATGGCGCCCGAGGTGGTGAACCGGC
 GTGGACACACACAGAGTCCGACTGGTGGTCTTCGGTGTGCTCATGTTGAGATGCTCACAGGGTCCCT
 GCCATTCAGGGGAAGGACAGGAAGGAAACAATGGCCCTCATCTCAAAGCCAAGCTGGGTATGCCTCAG
 TTCCTCAGTGGGAGGCTCAGAGCCTGCTCAGGGCCCTTTTCAAGCGGAACCCCTGCAACAGGCTAGGTG
 CTGGTGTGATGGAGTGGAGGAAATTAACGTCACCCGTTCTTTGTCACCATAGACTGGAATAAGCTGTA
 CCGCAAGGAGATCAAGCCACCTTCAAGCCAGCAGTGGCAGGCCCTGAGGACACCTTCCACTTTGACCCC
 GAGTTTACTGCAAGGACCCCAACAGATTCTCTGGTGTCCCCCAAGTCAAACGCCACCCACCTTCA
 GAGGATTCAGCTTTGTGGCTCCAGCCTGGTCCAGGAGCCCTCACAGCAAGACGTGCCCAAGGCCCCAT
 TCACCAATTGTGACGACGCTACATGGGAACAACATCCACTTCACTGACGGCTATGAGATCAAGGAGGAC
 ATCGGGGTGGGCTCCTACTCAGTGTGCAAGCGGTGTGTACACAAAGCCACGGATGCTGAGTATGCTGTGA
 AGATCATCGATAAGAGCAAAAGGGACCCCTCGGAGGAGATTGAGATCCTCCTGCGCTATGGCCAGCACCC
 CAACATCATCACCTAAAAGATGTCTATGATGATGGCAAGTACGTCTACCTGGTATGGAGCTCATGCGA
 GCGGGGAGCTGCTGGACCGTATCCTCCGTGAGCGGTGCTTCTCAGAGCGTGGGCCAGTGTGCTCT
 ATACCATCGCCAGGACCATGGACTACCTGCACTCCCAAGGGTGTCCATCGGGACCTGAAACCAAGTAA
 CATTCTGTACATGGATGAGTCTGGAACCCCGAATCTATCCGCATCTGTGACTTTGGGTTTGCCAAACAG
 CTTGAGCGGAGAAATGGGCTGCTCATGACCCCTGCTATACTGCAAACCTTTGTAGCTCCCGAGGTCTTGA
 AGCGGCAAGGCTACGATGCAGCGTGTGATGTCTGGAGCTTGGGAATCCTGCTGTACACCATGCTGGCTGG
 GTTCACTCCGTTTGCCAATGGCCAGACGATACCCCTGAGGAGATTCTGGCTAGGATCGGCAGTGGGAAG
 TACGCCCTTTCTGGGGAAACTGGGACTCCATATCTGATGCAGCAAAAGATGTGCTGTCCAAGATGCTCC
 ACGTGGACCTCAGCAACGCCTAACAGCAGTTCAGTGTGAAGCACCCGTGGATCGTGAACAGAGAGTA
 CCTATCCAAAACAGCTGAGCAGACAGGATGTCCATCTAGTGAAGGGTGCCATGGCGGCCACCTACTTT
 GCTCTGAACAGGACCCCAAGGCACCGAGGCTAGAGCCTGTGCTCTCATCTAGCTTGGCCCAACGCAGAG
 GCATGAAGAGACTCAGTCTACCAGTTG

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 ACAAGGATGACGACGATAAGGTTTAA

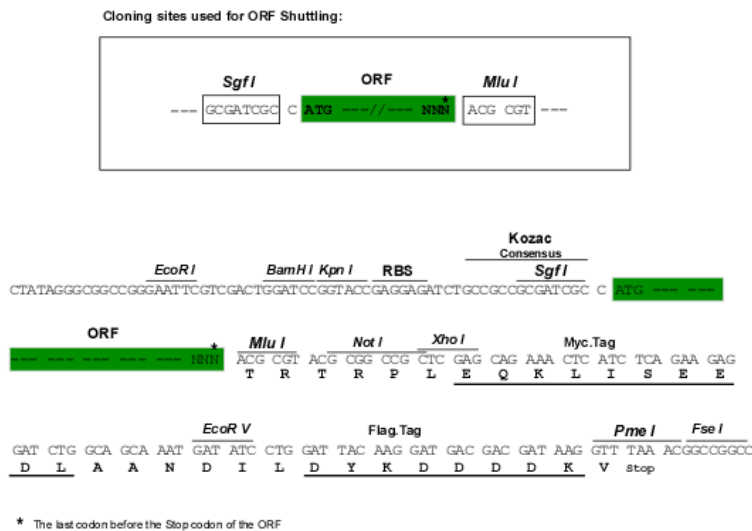
Protein Sequence: >MR210349 protein sequence
Red=Cloning site Green=Tags(s)

MELSMKKFTVRRFFSVYLRKKSRSKSSLSRLEEEGIVKEIDISNHVKEGF EKADPSQFELLKVLGQGSY
 GKVFLVRKVTGSDAGQLYTMKVLKATLKVRDRVRSKMERDILAEVNHPIVKLHYAFQTEGKLYLILDF
 LRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHGLGIYRDLKPENILLDEEGHIKITDFGLSKEAT
 DHDKRAYSF CGTIEYMAPEV VNR RGH TQSADWWSFGVLMFEMLTGSLPFQ GKDRKETMALILKAKLGMPQ
 FLSAEAQSLLRALFKRNP CNRLGAGVDGV EIKRHPFFVTIDWNKLYRKEIKPPFKPAVGRPEDTFHFDP
 EFTARTPTDSPGVP SANAHHLFRGFSFVASSLVQEPSQ QDVPKAPIHPIVQQLHGNNIHF TDGYEIKED
 IGVGSYSYCKRCVHKATDAEYAVKIIDKSKRDPSEEIEILLRYGQHPNIITLKDVYDDGKYVYLMELMR
 GGELLDRLRQRCFSEREASDVL YTIARTMDYLHSQGVVHRDLKPSNILYMDESGNPESIRICDFGFAKQ
 LRAENGLLMTPCY TANFVAPEVLKRQGYDAACDVWSLGILLYTM LAGFTPFANGPDDTPEELARIGSGK
 YALSGGNWDSISDAAKDVSKMLHVDPQQR LTA VQVLKHPWIVNREYLSQNQLSRQDVHLVKGAMAATYF
 ALNRTPQAPRLEPVLSSSLAQRGMKRLTSTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_011299

ORF Size: 2202 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_011299.1](#), [NM_011299.2](#), [NM_011299.3](#), [NM_011299.4](#), [NP_035429.1](#)

RefSeq Size: 5435 bp

RefSeq ORF: 2202 bp

Locus ID: 20112

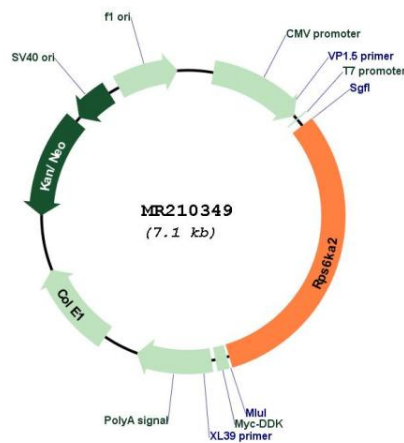
UniProt ID: [Q9WUT3](#)

Cytogenetics: 17 4.7 cM

MW: 83.2 kDa

Gene Summary: Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of transcription factors, regulates translation, and mediates cellular proliferation, survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210349