

Product datasheet for **MR210346**

Rps6ka2 (BC043064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6ka2 (BC043064) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rps6ka2
Synonyms:	Rsk3, pp90rsk, 90kDa, p90rsk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210346 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTGAGCATGAAGAAGTTCACGGTGCAGGTTCTTCTCCGTGTACCTGCGCAAGAAGTCCGCGT
 CCAAGAGCTCCAGTCTGAGTCGCCTCGAGGAAGAAGGCATTGTGAAGGAGATTGACATTAGCAACCATGT
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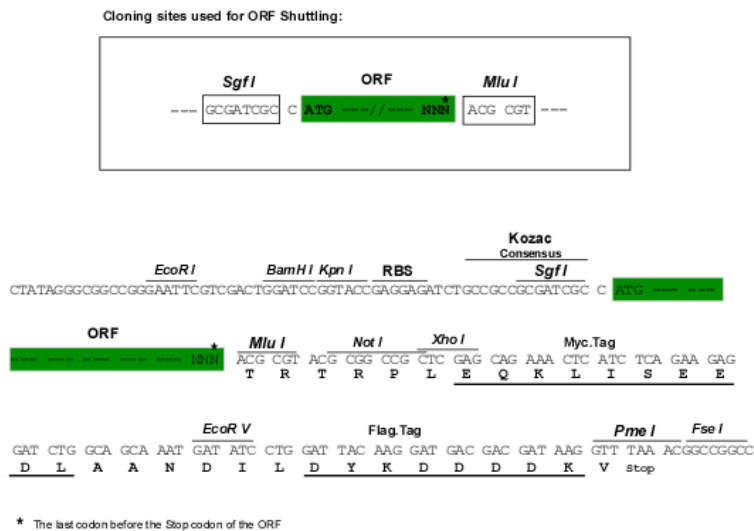
Protein Sequence: >MR210346 protein sequence
Red=Cloning site Green=Tags(s)

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MELSMKKFTVRRFFSVYLRKKSRSKSSLSRLEEEGIVKEIDISNHVKEGF EKADPSQFELLKVLGGQSY
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LRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHGLGIYRDLKPENILLDEEGHIKITDFGLSKEAT
DHDKRAYSFCGTIEYMAPEVNVNRRGHTQSADWWSFGVLMFEMLTGSLPFQGKDRKETMALILKAKLGMPQ
FLSAEAQSLLRALFKRNPENRNLGAGVDGVVEIKRHPFFVTIDWNKLYRKEIKPPFKPAVGRPEDTFHFDP
EFTARTPTDSPGVPPSANAHHLFRGFSFVASSLVQEPSQDVPKAPIHPIVQQLHGNNIHFDTGYEIKED
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GGELLDRILRQRCFSEREASDVL YTIARTMDYLHSQGVVHRDLKPSNILYMDESGNPESIRICDFGFAKQ
LRAENGLLMTPCYTANFVAPEVLKRQGYDAACDVWSLGILLYTMLAGFTPFANGPDDTPEELARIGSGK
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ALNRTQPAPRLEPVLSSSLAQRGMKRLTSTRL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC043064

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: [BC043064.1](#)

RefSeq Size: 5385 bp

RefSeq ORF: 2201 bp

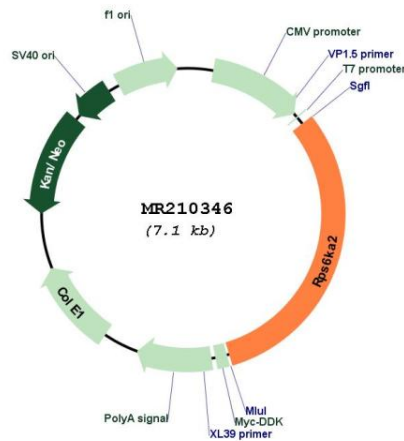
Locus ID: 20112

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 MR210346