

Product datasheet for **MG210346**

Rps6ka2 (BC043064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6ka2 (BC043064) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rps6ka2
Synonyms:	Rsk3, pp90rsk, 90kDa, p90rsk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210346 representing BC043064
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGAGCTGAGCATGAAGAAGTTCACGGTGCAGGTTCTTCTCCGTGTACCTGCGCAAGAAGTCCGCGT
CCAAGAGCTCCAGTCTGAGTCGCCTCGAGGAAGAAGGCATTGTGAAGGAGATTGACATTAGCAACCATGT
GAAGGAAGGCTTTGAGAAGGCAGACCCCTCCAGTTCGAGCTACTAAAGTTTTAGGACAAGGGTGTAT
GAAAGGTGTTCTTGGTGAAGGTTACAGGATCAGACGCTGGTCACTACGCCATGAAGTCTCTGA
AGAAAGCCACCTGAAAGTGCAGACCGGGTCAAGTCTAAGATGGAGAGAGACATCCTGGCAGAGGTGAA
TCAACCTTTTATTGTCAAGCTGCATTATGCCTTCAGACCGAAGGCAAGCTCTACCTGATCTGGACTTC
CTGCGGGGAGGTGACCTTTCACCAGGCTTTCAAAGAGGTGATGTTACGGAGGAGGATGTCAAGTCT
ACCTGGCTGAGCTGGCCTTGGCTCTAGACCACCTCCATGGCCTGGGGATCATCTACAGGGATCTGAAGCC
AGAGAATATCCTCCTGGATGAAGAGGGACACATTAAGATCACAGATTTTGGCTTGAGCAAGGAGGCCACC
GACCATGACAAGAGAGCCTATTCATTCTGTGGGACTATTGAATACATGGCGCCCGAGGTGGTGAACCGGC
GTGGACACACACAGAGTGCCGACTGGTGGTCTTCGGTGTGCTCATGTTGAGATGCTCACAGGGTCCCT
GCCATTCAGGGGAAGGACAGGAAGGAAACAATGGCCCTCATCCTCAAAGCCAAGCTGGGTATGCCTCAG
TTCCTCAGTGGGAGGCTCAGAGCCTGCTCAGGGCCCTTTTCAAGCGGAACCCCTGCAACAGGCTAGGTG
CTGGTGTGATGGAGTGGAGGAAATTAACGTCACCCGTTCTTTGTCACCATAGACTGGAATAAGCTGTA
CCGCAAGGAGATCAAGCCACCTTCAAGCCAGCAGTGGCAGGCCCTGAGGACACCTTCCACTTTGACCCC
GAGTTTACTGCAAGGACCCCAACAGATTCTCCTGGTGTCCCCCAAGTGCACAAAGCCACCACTTTCA
GAGGATTCAGCTTTGTGGCTCCAGCCTGGTCCAGGAGCCCTCACAGCAAGACGTGCCAAGGCCCCAT
TCAACCAATTGTGACAGCAGCTACATGGGAACAACATCCACTTCACTGACGGCTATGAGATCAAGGAGGAC
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TACGCCCTTTCTGGGGAAACTGGGACTCCATATCTGATGCAGCAAAAGATGTGCTGTCCAAGATGCTCC
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CCTATCCAAAACCAGCTGAGCAGACAGGATGTCCATCTAGTGAAGGGTGCCATGGCGGCCACCTACTTT
GCTCTGAACAGGACCCCAAGGCACCGAGGCTAGAGCCTGTGCTCTCATCTAGCTTGGCCCAACGCAGAG
GCATGAAGAGACTCACGTCTACCAGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210346 representing BC043064
 Red=Cloning site Green=Tags(s)

MELSMKKFTVRRFFSVYLRKKSRSKSSLSRLEEEGIVKEIDISNHVKEGFKADPSQFELLKVLGQGSY
 GKVFLVRKVTGSDAGQLYAMKVLKATLKVDRVRSKMERDILAEVNHPFIVKLHYAFQTEGKLYLILDF
 LRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHGLGIYRDLKPENILLDEEGHIKITDFGLSKEAT
 DHDKRAYSF CGTIEYMAPEV VNRRTGHTQSADWWSFGVLMFEMLTGSLPFQKDRKETMALILKAKLGMPQ
 FLSAEAQSLLRALFKRNPCNRLGAGVDGV EIKRHPFFVTIDWNKLYRKEIKPPFKPAVGRPEDTFHFDP
 EFTARTPTDSPGVPPSANAHHLFRGFSFVASSLVQEPSQQDVPKAPIHPIVQQLHGNNIHFDTGYEIKED
 IGVGSYSYCKRVCVHATDAEYAVKIIDKSKRDPSEEIEILLRYGQHPNIITLKDVYDDGKYVYVLMELMR
 GGELLDRLRQRCFSEREASDVL YTIARTMDYLHSQGVVHRDLKPSNILYMDESGNPESIRICDFGFAKQ
 LRAENGLLMTPCYTANFVAPEVLKRQGYDAACDVWSLGILLYTMLAGFTPFANGPDDTPEEILARIGSGK
 YALSGGNWDSISDAAKDVSKMLHVDPPQRLTAVQVLKHPWIVNREYLSQNL SRQDVHLVKGAMAATYF
 ALNRTQPAPRLEPVLSSSLAQRGMKRLTSTRL

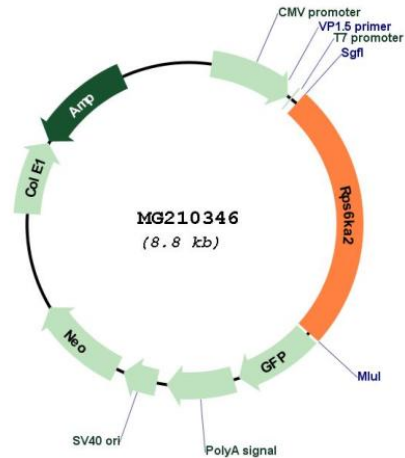
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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

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]