

## Product datasheet for **MG210349**

### **Rps6ka2 (NM\_011299) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rps6ka2 (NM_011299) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rps6ka2
Synonyms:	90kDa; D17Wsu134e; p90rsk; pp90rsk; Rps6ka-rs1; Rsk3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210349 representing NM\_011299  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAGCTGAGCATGAAGAAGTTCACGGTGCAGGTTCTTCTCCGTGTACCTGCGCAAGAAGTTCGCGCT  
CCAAGAGCTCCAGTCTGAGTCGCCTCGAGGAAGAAGGCATTGTGAAGGAGATTGACATTAGCAACCATGT  
GAAGGAAGGCTTTGAGAAGGCAGACCCCTCCAGTTCGAGCTACTAAAGTTTTAGGACAAGGGTGTAT  
GAAAGGTGTTCTTGGTGAAGGTTACAGGATCAGACGCTGGTCTACACCATGAAGTCTCTGA  
AGAAAGCCACCTTAAAGTGCAGACCGGGTCCAGATCTAAGATGGAGAGAGACATCCTGGCAGAGGTGAA  
TCAACCTTTTATTGTCAAGCTGCATTATGCCTTTCAGACCGAAGGCAAGCTCTACCTGATCTGGACTTC  
CTGCGGGGAGGTGACCTTTCACCAGGCTTTCAAAGAGGTGATGTTACGGAGGAGGATGTCAAGTCT  
ACCTGGCTGAGCTGGCCTTGGCTCTAGACCACCTCCATGGCCTGGGGATCATCTACAGGGATCTGAAGCC  
AGAGAATATCCTCTGGATGAAGAGGGACACATTAAGATCACAGATTTTGGCTTGAGCAAGGAGGCCACC  
GACCATGACAAGAGACCTATTCATTCTGTGGGACTATTGAATACATGGCGCCCGAGGTGGTGAACCGGC  
GTGGACACACACAGAGTGCCGACTGGTGGTCTTCGGTGTGCTCATGTTGAGATGCTCACAGGGTCCCT  
GCCATTCAGGGGAAGGACAGGAAGGAAACAATGGCCCTCATCCTCAAAGCCAAGCTGGGTATGCCTCAG  
TTCCTCAGTGGGAGGCTCAGAGCCTGCTCAGGGCCCTTTTCAAGCGGAACCCCTGCAACAGGCTAGGTG  
CTGGTGTGATGGAGTGGAGGAAATTAACGTCACCCGTTCTTTGTCACCATAGACTGGAATAAGCTGTA  
CCGCAAGGAGATCAAGCCACCTTCAAGCCAGCAGTGGCAGGCCCTGAGGACACCTTCCACTTTGACCCC  
GAGTTTACTGCAAGGACCCCAACAGATTCTCTGGTGTCCCCCAAGTGCACCAAGGAGGCCACCTTTCA  
GAGGATCAGCTTTGTGGCTCCAGCCTGGTCCAGGAGCCCTCACAGCAAGACGTGCCAAGGCCCCCAT  
TCAACCAATTGTGACGACGCTACATGGGAACAACATCCACTTCACTGACGGCTATGAGATCAAGGAGGAC  
ATCGGGGTGGGCTCCTACTCAGTGTGCAAGCGGTGTGTACACAAAGCCACGGATGCTGAGTATGCTGTGA  
AGATCATCGATAAGAGCAAAAGGGACCCCTCGGAGGAGATTGAGATCCTCCTGCGCTATGGCCAGCACCC  
CAACATCATCACCTAAAAGATGTCTATGATGATGGCAAGTACGCTACCTGGTATGGAGCTCATGCGA  
GGCGGGGAGCTGCTGGACCGTATCCTCCGTGAGCGGTGCTTCTCAGAGCGTGAGGCCAGTGTGCTCT  
ATACCATCGCCAGGACCATGGACTACCTGCACTCCCAAGGGTGTCCATCGGGACCTGAAACCAAGTAA  
CATTCTGTACATGGATGAGTCTGGAAACCCGAATCTATCCGCATCTGTGACTTTGGGTTTGCCAAACAG  
CTTCGAGCGGAGAATGGGCTGCTCATGACCCCTGCTATACTGCAAACCTTTGTAGCTCCCGAGGTCTTGA  
AGCGGCAAGGCTACGATGCAGCGTGTGATGTCTGGAGCTTGGGAATCCTGCTGTACACCATGCTGGCTGG  
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TACGCCCTTTCTGGGGAAACTGGGACTCCATATCTGATGCAGCAAAAGATGTGCTGTCCAAGATGCTCC  
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CCTATCCAAAACCAGCTGAGCAGACAGGATGTCCATCTAGTGAAGGGTGCCATGGCGGCCACCTACTTT  
GCTCTGAACAGGACCCCAAGGCACCGAGGCTAGAGCCTGTGCTCTCATCTAGCTTGGCCCAACGCAGAG  
GCATGAAGAGACTCACGTCTACCAGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210349 representing NM\_011299  
 Red=Cloning site Green=Tags(s)

MELSMKKFTVRRFFSVYLRKKSRSKSSSLRLEEEGIVKEIDISNHVKEGFKADPSQFELLKVLGQGSY  
 GKVFLVRKVTGSDAGQLYTMKVLKATLKVDRVRSKMERDILAEVNHPFIVKLHYAFQTEGKLYLILDF  
 LRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHGLGIYRDLKPENILLDEEGHIKITDFGLSKEAT  
 DHDKRAYSF CGTIEYMAPEV VNRRTGHTQSADWWSFGVLMFEMLTGSLPFQKDRKETMALILKAKLGMPQ  
 FLSAEAQSLRLALFKRNPCNRLGAGVDGVVEIKRHPFFVTIDWNKLYRKEIKPPFKPAVGRPEDTFHFDP  
 EFTARTPTDSPGVPPSANAHHLFRGFSFVASSLVQEPSQQDVPKAPIHPIVQQLHGNNIHFDTGYEIKED  
 IGVGSYSYCKRVCVHATDAEYAVKIIDKSKRDPSEEIEILLRYGQHPNIIITLKDVYDDGKYVYVLMELMR  
 GGELLDRI LRQRCFSEREASDVL YTIARTMDYLHSQGVVHRDLKPSNILYMDESGNPESIRICDFGFAKQ  
 LRAENGLLMTPCYANFVAPEVLKRQGYDAACDVWSLGILLYTMLAGFTPFANGPDDTPEEILARIGSGK  
 YALSGGNWDSISDAAKDVSKMLHVDPQQRILTAVQVLKHPWIVNREYLSQNL SRQDVHLVKGAMAATYF  
 ALNRTQPAPRLEPVLSSSLAQRGMKRLTSTRL

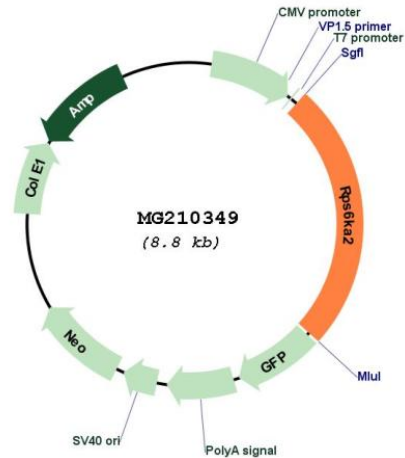
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


<b>ACCN:</b>	NM_011299
<b>ORF Size:</b>	2199 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_011299.4</a> , <a href="#">NP_035429.1</a>
<b>RefSeq Size:</b>	5435 bp
<b>RefSeq ORF:</b>	2202 bp
<b>Locus ID:</b>	20112

UniProt ID: [Q9WUT3](#)

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]