

## Product datasheet for **MG219708**

### Rps6kc1 (NM\_178775) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6kc1 (NM_178775) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rps6kc1
Synonyms:	AA682037; B130003F20Rik; C80612; Rpk118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219708 representing NM_178775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCTCCTGGGGTACAGTGCGGACCTGGCCCGTTCTACACTGTCACCGAGCCCCAGCGACACC  
CCAGGGGTACTACTGTCTATAAGGTTACCGCACGGGTTGTTTCACGGAGAAATCCAGAGGACGTCCAGGA  
GATAATTGTGTGGAGGAGATACAGTGACTTCAAGAACTGCACAGAGAATTATGGCAAATTCACAGGAAT  
GCATTTTCGACACTCTGAGCTATTTCCCGGTTTGGCTAAAGGGACAGTGTTTGGGCGGTTGACAAGACGG  
TGATTGAGGAGCGACGGCAGTGTGCTGAGGACCTGCTGCAGTTCTCTGCCAACATCCCCGCCTGTACAA  
CAGCAGGCAGCTCCAGGACTTCTCAAGGGTGGGTAATTAGTGATGGCTCTGAGTTAATTGGCCCTGT  
GAAGCTTACCCAGACTCCCCGGCAACGCCTTCTGAGTGCGGTAAGGATTCTCCAGTGACAGTG  
ACCTTCTGTCCCTCACTGTTGATGCAGACTCTCTTCCGAGGTAGATGATGGAATGGCTTCCCGTCAGGG  
TTCTCCAGTAGAACCTTGGTCTGAGTCTGTCTACGGATTCTTCGGCAGTAGGGGCTGTTGCTTCTGAC  
AGTGAACCAAGCAGAGTAGAAGACCGGAAAGCCGACGCTTCCCCAGCAGCTTAAAGCAAGGCTTG  
GCAGGAGAGATTACCTGGAGAAGCAGGGGAACCTATCAAAGTGGCTTAAAGAAGGAGGAGGAAGATGA  
CTATGAAGCTGCTTCTGACTTTTACAGGAAGGGCGTCGATCTGCTCCTAGAAGGTGTACAAGGAGAGTCC  
AGCCCCACGCGTGGGAGGCTGTGAAGAGAAGGACTGCGGAGTACCTCATGCGTGACAGAGCATCTGTA  
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GAGCCTGAGGAGCCCTGCCGAGGAGCTGAAGGCCTTCCGAGTCTTGGGGTGATTGACAAGGTTTTACTT  
GTAATGGATACAAGGACAGAGCAGACATTCATTTTAAAAGGTCTAAGGAAAAGCAGCGAGTGCAGCAGGA  
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AGCCAAGTGCCAGTCCCCAGGGCGCAGCAGCTTCGAGTCCAGAGGGAGCGACACGGGGAGCATGCTGAA  
GGCTCTGCCTCTGAAGACCAGTCTACCCCGAGTTCTCAAGACGACAGCAACCAGGAAGACGACGGCCAG



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CCCAGCTCTCCAAGTGGCTGGATTCTGGGCTCCAGTTCAGAGGATGAGTGACACAGCGGGCTACCTGACGC
TGTGCAACGAGTATGGGCAAGAAAAGATGGACCTGGTGTCTCTGAGCGAGGAGTCTGTTATGCAGCCTGA
AGGGGACAAGGCTGACACCCAGGCGGTTAGTTCGCCAGCATCCCTCGCCACTGGCAGTGTGAGCCCTAGC
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TCAGTAGTCAAAAAACAGCCCTATGGAATTCTCAGAATAGACAGTAAAGACAGCACAAGTGAAGTCTCT
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TGAGCCGGGGCTCAGATGATTCCGTCAGTATCTCATTAAAGAGGCGGCTGCAGAGGCTATCAGTGG
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CAGGTTCTTATCCCAGAGGGCTGCATTAGAGATGGGCAGCGGAAATGGTGGTAGCCCTTGACGCCCTTG
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AGCTAACGTATTTTAGCAGGTGGAGTGAAGTTGAAGATTCCTGCGACAGCGATGCCGTAGCGAGAATGTA
CTGTGCCCCAGAGGTTGGAGCAGTCACAGAAGAACTGAAGCCTGTGATTGGTGGAGCCTGGGTGCTGTC
CTCTTCGAACTTCTCACTGGCAAGACGTTGGTGAATGCCACCCAGCCGGAATAAATACCCACACTACTT
TGAACATGCCAGGTTGTGTTTCTGAAGAGGCTCGCTCACTCATCAACAGCTCCTGCAGTCAACCCAT
GGAGCGCCTGGGTGCTGGAGTGGTGTGAAGATATCAAAATCACCCGTTTTTACCCTGTGGAT
TGGGCAGAGTTGACAAGA
    
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AGCGGACCGACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG219708 representing NM\_178775  
 Red=Cloning site Green=Tags(s)

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MTPSPWGHASDLARFYTVTEPQRHPRGYTVYKVTARVVSRRNPEDVQEIIIVRRYSDFKKLHRELWQIHRN
AFRHSSELPFPFAKGTVFRGDKTVEERRQCAEDLLQFSANIPALYNSRQLQDFFKGGVISDGSSELIGPA
EAYPDSPANAFPEGTEGFSSDSDLLSLTVDADSLAEVDDGMASRQGSRTFGLSLSTDSSAVGAVASD
SEPSRVEDRESRSLFPSSLKPRLGRRDYLEKAGELIKLALKKEEEDDYEAASDFYRKGVDLLLEGVQGES
SPTRREAVKRRTAEYLMRAESICSLRAAPQLHTGPQPPGSLSSRPPWSLRSPAELKAFRVLGVIDKVLL
VMDTRTEQTFILKGLRKSSECSRNRKTIIPRCVPMVCLHTYIIISESVFLVLQRAEGGKLWSYISKFLN
RSSQESLDIKEGRPSMPPRVCLQQPSASPOGGSSFESRGSDTGSMKALPLKTSLTPSSQDSDNQEDDGQ
PSSPKWLDGSSSEDECTAGYLTLCNEYQEKMDLVSLSEESVMQPEGDKADTQAVSSPASPATGVSVPS
THLRVFSGGEDLEAVSSPPTSELSRSKNSPMEFFRIDSKDSTSELLGLDFGKELHSLKPEPLKALFTE
DGDSPSQSLDPGESKRESEAQDSVSRGSDSVPI SFKEAAAEAI SGAEEGRPDLLVNLPGELQPTKEAS
AMDPKFSQASAGRLDSKLLLEAPDVLCLRLSSEQCHGLGPEGPEELSDPTEFCPPGVIPEHDAQADPGVLF
EAAVDHRSSPDQFLFSSLRSESDRLGQVEVVVTAQALQESLFHISSPCSGANKEHSAYADTATSEEVLLF
TEPTKEEANSLFQRDSEAQERGVGAGEADKEIHQIFEDLDKRLAASSRFIPEGCIQRWAAEMVVALDAL
HREGIVCRDLNPNNILLNDGGHIQLTYFSRWSEVEDSCSDSAVARMYCAPEVGAVTEETEACDWWSLGAV
LFELLTGKTLVEHPAGINTHTTLNMPGCVSEEARSLIQQLLQFNPMERLGAGVAGVEDIKSHPPFTVPD
WAELTR
    
```

SGPTRRRLE - GFP Tag - V

**Restriction Sites:**

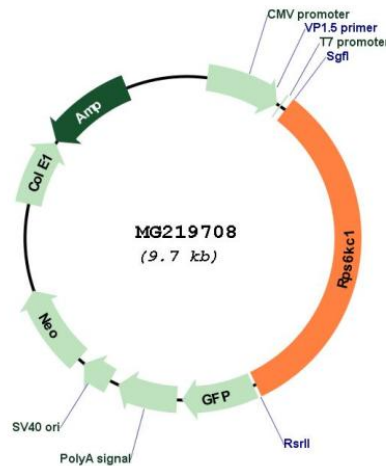
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_178775

ORF Size: 3168 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.

<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_178775.4</a> , <a href="#">NP_848890.3</a>
<b>RefSeq Size:</b>	4034 bp
<b>RefSeq ORF:</b>	3171 bp
<b>Locus ID:</b>	320119
<b>UniProt ID:</b>	<a href="#">Q8BLK9</a>
<b>Cytogenetics:</b>	1 H6
<b>Gene Summary:</b>	May be involved in transmitting sphingosine-1 phosphate (SPP)-mediated signaling into the cell. Plays a role in the recruitment of PRDX3 to early endosomes.[UniProtKB/Swiss-Prot Function]