

Product datasheet for **MG221629**

Rims1 (NM_001012625) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rims1 (NM_001012625) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rims1
Synonyms:	C030033M19Rik; mKIAA0340; Rab3ip1; Rim; RIM1; RIM1a; RIM1alpha; Serg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221629 representing NM_001012625 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCGGCCGTGGGGCCCCGAGGTCTCGCCACCCACGGTGCCTCCCCCTATGCAAGAACTGCCCCG
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GTTCTAGAGTGGAAATGGTAAACCCCTGCCGGGAGCAACAAACGAAGAAGTTTACAACATTATTTTGAAT
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CCCAATCATCACTGGAAGTTTCGTCTGGGCCTCCTGCATCCGGTCA

ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221629 representing NM_001012625
 Red=Cloning site Green=Tags(s)

MSSAVGPRGPRPPTVPPPMQELPDL SHL TEEERNIIMAVMDRQKEEEEEKEEAMLKCVVRDMAKPAACKTP
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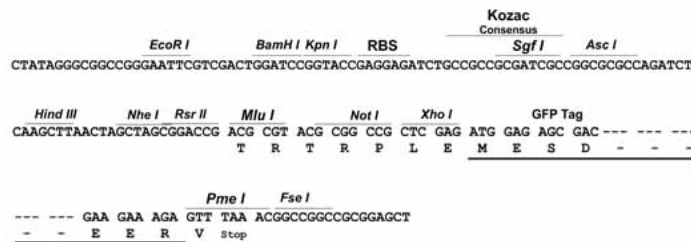
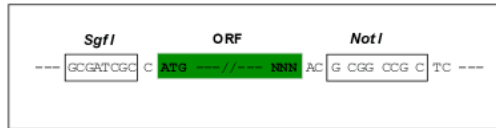
TRPLE - GFP Tag - V

Restriction Sites:

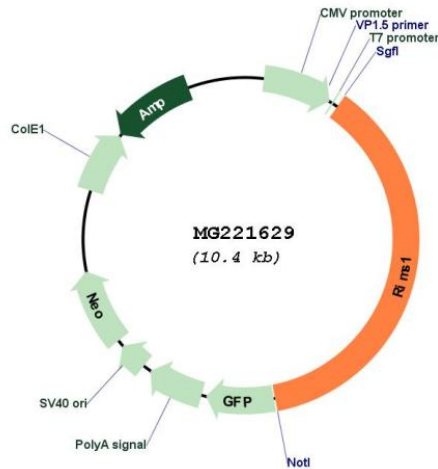
Sgfl-NotI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001012625

ORF Size: 3897 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_001012625.2](#)

RefSeq Size: 3900 bp

RefSeq ORF: 3900 bp

Locus ID: 116837

UniProt ID: [Q99NE5](#)

Cytogenetics: 1 A5

Gene Summary:

Rab effector involved in exocytosis (PubMed:11797009). May act as scaffold protein that regulates neurotransmitter release at the active zone. Essential for maintaining normal probability of neurotransmitter release and for regulating release during short-term synaptic plasticity (PubMed:11797009). Plays a role in dendrite formation by melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]