

## Product datasheet for MR221626

### Rims1 (NM\_183018) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rims1 (NM_183018) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rims1
Synonyms:	C030033M19Rik; mKIAA0340; Rab3ip1; Rim; RIM1; RIM1a; RIM1alpha; Serg1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR221626 representing NM_183018 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
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ATGTCCTCGGCCGTGGGGCCCCGAGGTCTCGCCACCCACGGTGCCTCCCCTATGCAAGAAGTGGCCG  
ACCTGAGCCACCTGACCGAGGAGGAGGAACATTATCATGGCAGTGATGGACCGCAGAAGGAAGAGGA  
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CAAAATCAGAACCTCAAGTTGAAATTATTGTTTCAAGGCCTATTGGTGACATCCCCAGGATCCCTGAGAG  
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TGGAAAGTTCGTCTGGGCTCCCTGCATCCGGTCA

ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
TTACAAGGATGACGACGATAAAGGTTTAA

Protein Sequence: >MR221626 representing NM\_183018  
 Red=Cloning site Green=Tags(s)

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 RNAESQPHQPPLNIFRCVCVPRKPSSEEGPDRNWRLHQQFESYKEQVRKIGEEARRYQGEHKDDAPT  
 ICHKTKFADGCGHLCSYCRKFCARCGGRVSLRSNNEDKVVMMWCNLCKRQQEILTKSGAWFFGSGPQQP  
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 VISPTSPGALKDAPQVLPQLSVKLWYDKVGHQLIVNVLQATDLPPRVDGRPRNPYVKMYFLPDRSDKSK  
 RRTKTVKLLLEPKWNQTFVYSHVHRRDFRERMLEITVWDQPRVQDEESEFLGEILIELETALLDDEPHWY  
 KLQTHDESSLPLPQSPFMPRRHIHGESSKKLQRSQRISDSDISDYEVDDGIGVPPVGYRASARESKA  
 TTLTVPEQRTTHHRSRSVSPHRGDDQGRPRSRLPNVPLQRSLEIHPTRRSRSPTRHHDASRSLADHRS  
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 SFTPKMQGRRMGTSGRAIIKSTSVSGEITYLEHNDGSQSDTAVGTVGAGGKKRRSSLAKVVAIVSRRSR  
 STSQLSQTESGHKKLSTIQRSTETGMAEMRKMVRQPSRESTDGSINSYSSEGNIIFPGVRVGPDSQFS  
 DFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGLQLEVEVIRARSLTQKPGSKSTPAPYVKVYLLENGAC  
 IAKKKTIRARKTLDPLYQQLVFDESPQKVLQVIVWGDYGRMDHKCFMGVAQIILLEELDLSSMVIWYK  
 LFPPSSLVDPTLTPLTRRASQSSLESSSGPPCIRS

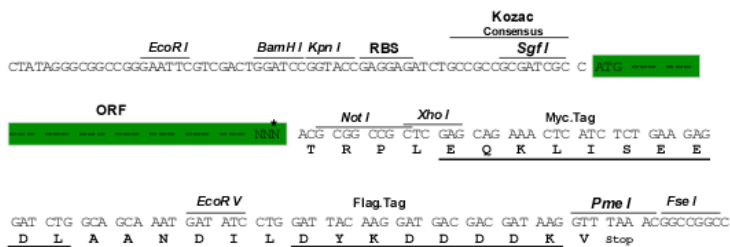
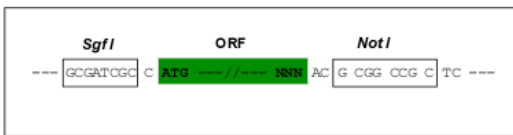
TRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

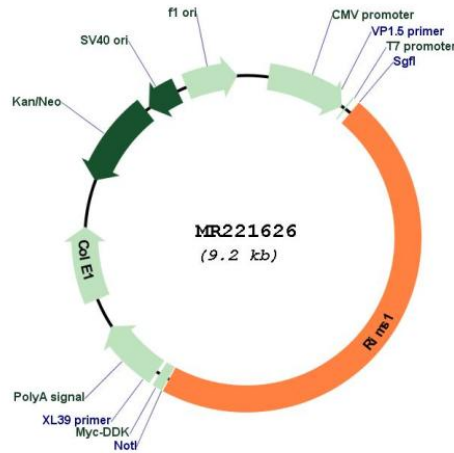
Sgfl-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_183018

**ORF Size:** 4305 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\\_183018.3](#)

**RefSeq Size:** 4308 bp

**RefSeq ORF:** 4308 bp

**Locus ID:** 116837

**UniProt ID:** [Q99NE5](#)

**Cytogenetics:** 1 A5

**MW:** 160.4 kDa

**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]