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Product datasheet for RC213013

RIM1 (RIMS1) (NM_014989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIM1 (RIMS1) (NM_014989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIM1
Synonyms:	CORD7; RAB3IP2; RIM; RIM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213013 representing NM_014989
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGTCCTCGGCCGTGGGGCCCCGCGGTCCTCGCCCACCCACGGTGCCTCCCCCCATGCAAGAGCTGCCCG
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Protein Sequence:

>RC213013 representing NM_014989
Red=Cloning site Green=Tags(s)

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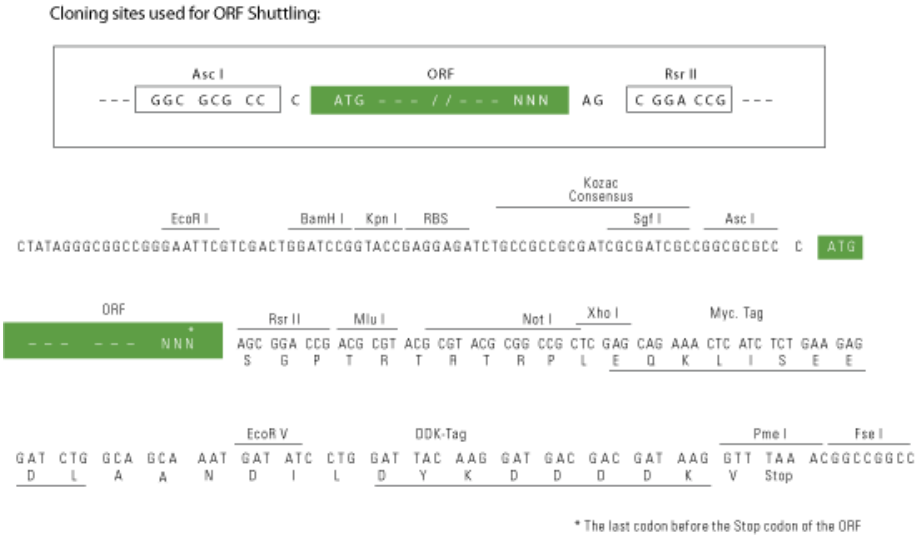
Chromatograms: https://cdn.origene.com/chromatograms/mk8024_e09.zip

Restriction Sites: AscI-RsrII

Cloning Scheme:



ACCN: NM_014989

ORF Size: 5076 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_014989.5, NP_055804.2

RefSeq Size: 5079 bp

RefSeq ORF: 5079 bp

Locus ID: 22999

UniProt ID: Q86UR5

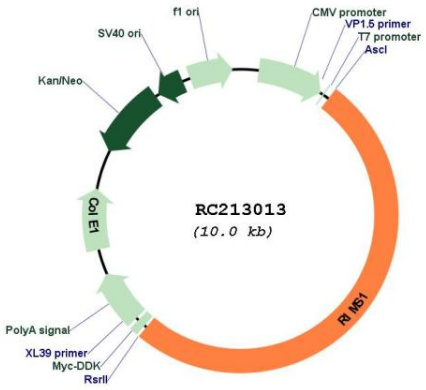
Cytogenetics: 6q13

Domains: C2, PDZ, RPH3A_effector

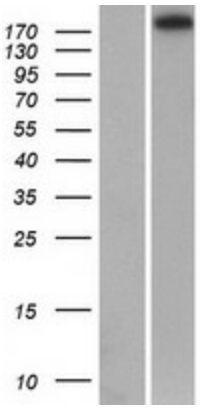
MW: 188.9 kDa

Gene Summary: The protein encoded by this gene is a RAS gene superfamily member that regulates synaptic vesicle exocytosis. This gene also plays a role in the regulation of voltage-gated calcium channels during neurotransmitter and insulin release. Mutations have suggested a role cognition and have been identified as the cause of cone-rod dystrophy type 7. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RC213013



Western blot validation of overexpression lysate (Cat# [LY414883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).