

## Product datasheet for **RG230513**

### **RIM1 (RIMS1) (NM\_001168408) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIM1 (RIMS1) (NM_001168408) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIMS1
Synonyms:	CORD7; RAB3IP2; RIM; RIM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230513 representing NM\_001168408  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGTGCACCTGGGATTCATGTCTCTTCAGAAGGGTGGGAAGAAGTGAGGTCTGTTGATCCGAAGAGG  
 GAACAATTGAAGCTCGACGAGCAGTTGCTGGTGATTTGGATTATTACTGGTTGGATCCTGCCACGTGGCA  
 CAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACGTGGCAACCATCTAAAGAGGGGGACCGATTA  
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 CCATGATGCCTCCCGAAGTCCAGTTGATCATAGAACCAGAGATGTGGATAGTCAGTATTTATCAGAACAA  
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 AACTGCAGCCCTTTCTTGACAGGGCTAGGAGTGTAGTACCAACTGCTTGAGACCAGATACTAGTTTGCA  
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 TGCTGGGGAGACTATGGCAGAATGGACCACAAATGCTTTATGGGTGTGGCTCAGATCTTGTGGAAAGAA  
 CTCGACCTGTCCAGCATGGTGTATCGGATGGTACAAATGTTCCACCCGTCCTCACTGGTGGATCCCACAC  
 TCACTCCCTCACCCGGCGGGCTTCCAGTCATCTCTGAAAGTTCAACTGGGCCTCCCTGTATTGATC  
 A

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

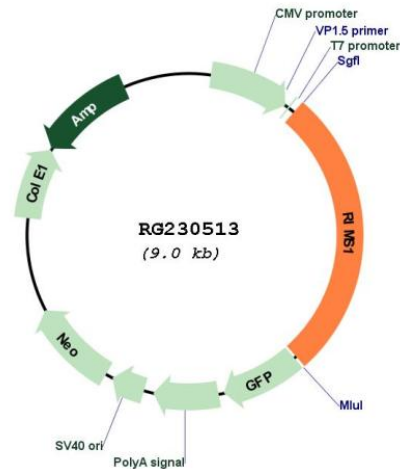
Protein Sequence: >RG230513 representing NM\_001168408  
Red=Cloning site Green=Tags(s)

```
MCAPGIHVSSEGWEEVRSVDSEEGTIEARRAVAGDLDDYYWLDPATWHSRETSPISHPVTWQPSKEGDRL
IGRVILNKRTTMPKDSGALLGLKVVGGKMTDLGRLGAFITKVKKGLADVVGHLAGDEVLEWNGKPLPG
ATNEEVYNIILESSEKSEPQVEIIVSRPIGDIPRIPESSHPPLESSSSSFESQKMERPSISVISPTSPGALK
DAPQVLPQQLSVKLVYDKVGHQLIVNVLQATDLPARVDGRPRNPYVKMYFLPDRSDKSKRRTKTVKKILE
PKWNQTFVYSHVHRRDFRERMLEITVWDQPRVQEESEFLGEILIELETALLDDEPHWYKLQTHDESSLP
LPQSPFMPRRHIHGESSKKLQRSQRISSDSISDYEVDDGIGVVPPVGYRSSARESSTTLTVPEQQRT
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SSRRGRQLPQVPVRSIEQESGHKLLKSTIQRSTETGMAAEMRKMVRQPSRESTDGSINSYSSEGNLIF
PGVRLGADSQFSDFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARSLTQKPGSKSTPAP
YVKVYLLENGACIAKKKTRIARKTLDPLYQQSLVFDESPQGVKLVIVWGDYGRMDHKCFMGVAQILLEE
LDLSSMIVGWYKLFPPSSLVDPTLTPLTRRASQSSLESSTGPPCIRS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



**Plasmid Map:**


**ACCN:** NM\_001168408

**ORF Size:** 2451 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\\_001168408.2](#)

**RefSeq Size:** 5202 bp

**RefSeq ORF:** 2454 bp

**Locus ID:** 22999

**UniProt ID:** [Q86UR5](#)

**Cytogenetics:** 6q13

**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]