

## Product datasheet for **RC230521**

### **RIM1 (RIMS1) (NM\_001168410) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIM1 (RIMS1) (NM_001168410) 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)



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**ORF Nucleotide Sequence:**

>RC230521 representing NM\_001168410  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTGTGGTCTTCTGCAGTTTCTACTACTTCATACATTGCACTCAGGAACAGGTGATTGGATTATT  
 ACTGGTTGGATCCTGCCACGTGGCACAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACTGGCA  
 ACCATCTAAAGAGGGGGACCGATTAATTGGACGTGTTATTCTTAACAAGAGAACAACCATGCCCAAAGAC  
 TCAGGTGCATTGCTGGTCTGAAAGTTGTTGGAGGAAAAATGACTGACTTAGGACGACTTGGTGCTTCA  
 TCACCAAAGTAAAGAAGGGTAGCCTAGCAGATGTAGTTGGACACCTAAGAGCAGGGGATGAAGTTCTAGA  
 ATGGAATGGTAAACCCCTGCCGGGAGCTACAAATGAAGAAGTTTACAACATTATTTTAGAATCAAAATCA  
 GAACCTCAAGTTGAAATTATTGTTTCAAGGCCATTGGTGACATTCCCCGGATTCCTGAGAGCTCCCACC  
 CTCCTACTGGAGTCCAGTTCAGTTCCTTTGAATCTCAGAAGATGGAAGGCCCTTCCATTTCTGTTATTTT  
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 CAAAACAGTAAAGAAAATACTAGAACAAAAATGGAATCAAACCTTTTGTCTATTACATGTACATCGTAGA  
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 GAAAGCTCTAGCAAAAAGCTACAAGATCTCAGCGAATCAGTGATAGTGACATCTCAGATTATGAGGTTG  
 ATGATGGTATTGGCGTAGTTCCTCCAGTAGGCTATAGGCTAGTGCTAGAGAAAAGTAAATCTACAACAT  
 AACTGTGCCAGAACAGCAAGAACAACACTCACCGCTCACGTTCAAGTATCTCTCATCGCGGCAATGAT  
 CAGGAAAAGCCGCTTCCGTTTACCAATGTGCCATTACAGAGGAGTTAGATGAAATTCATCCAACA  
 GAAGGTCACGTTCTCAACCAGACACCATGATGCCTCCCAGAGTCCAGTTGATCATAGAACCAGAGATGT  
 GGATAGTCAGTATTTATCAGAACAAGACAGTGAGCTTCTTATGCTGCCAGAGCAAAACGAGGACGAAGT  
 GCAGAATGCCTACATACTACCAGTGAATGCAGCCCTTCTTGACAGGGCTAGGAGTGCTAGTACCAACT  
 GCTTGAGACCAGATACTAGTTTGCATTCACCAGAACGAGAAAGGCACTCCAGAAAGTCTGAAAGATCTAG  
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 TACAGCTCTGAGGGCAATTAATATTTCTGGAGTGCAGCTGGGAGCTGACAGTCAATTCAGTGATTTTC  
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 TCCACAGGGTAAAGTTCTCAGGTGATTGTCTGGGGAGACTATGGCAGAATGGACCACAAATGCTTTATG  
 GGTGTGGCTCAGATCTTGTGGAAGAACTCGACCTGTCCAGCATGGTGATCGGATGGTACAAATTGTTCC  
 CACCGTCTCACTGGTGGATCCCACACTACTCCCTCACCCGGCGGGCTTCCAGTCATCTCTGAAAAG  
 TTCAACTGGGCCTCCCTGATTTCGATCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230521 representing NM\_001168410  
 Red=Cloning site Green=Tags(s)

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MFAGFLQFLLLHTLHSGTGDLDDYWLDPATWHSRETSPISSHPVTWQPSKEGDRLEIGRVILNKRTTMPKD
SGALLGLKVVGGKMTDLGRLGAFITKVKKGLADVVGHLAGDEVLEWNGKPLPGATNEEVYNIILESKE
EPQVEIIVSRPIGDIPIPESSHPPLESSSSSFESQKMERPSISVISPTSPGALKDAPQVLPQQLSVKLW
YDKVGHQLIVNVLQATDLPARVDGRPRNPYVKMYFLPDRSDKSKRRTKTVKKILEPKWNQTFVYSHVHRR
DFRERMLEITVWDQPRVQEESEFLGEILIELETALLDDEPHWYKLQTHDESSLPLPQSPFMPRRHIHG
ESSKKLQRSQRISDSISDYEVDDGIGVPPVGYRSSARESKSTLTVPEQQRTHHRSRSVSPHRGND
QGKPRSRLPNVPLQRSLDEIHPTRRSRSPTRHHDASRSPVDHRTRDVSQYLSEQDSELLMLPRAKRGRS
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QSPPADTSFSSRRGRQLPQVPVRSISIEQESGHKKLKSTIQRSTETGMAAEMRKMVRQPSRESTDGSINS
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PGSKSTPAPYVKVYLLENGACIAKKKTRIAKRTLDPYQQLVFDESPQKVLQVIWGDYGRMDHKCFM
GVAQILLEELDLSSMVGWYKLFPPSSLVDPTLTPLTRRASQSSLESSTGPPCIRS
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001168410

**ORF Size:** 2478 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\\_001168410.2](#)

**RefSeq ORF:** 2481 bp

**Locus ID:** 22999

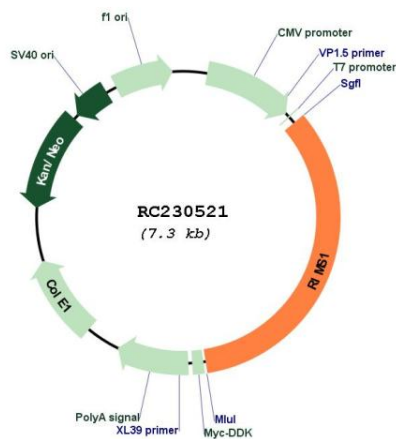
**UniProt ID:** [Q86UR5](#)

**Cytogenetics:** 6q13

**MW:** 93.2 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 RC230521