

Product datasheet for **RG230521**

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:	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:

>RG230521 representing NM_001168410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTGTGGTTTCTGCAGTTTCTACTACTTCATACATTGCACTCAGGAACAGGTGATTTGGATTATT
ACTGGTTGGATCCTGCCACGTGGCACAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACTGGCA
ACCATCTAAAGAGGGGACCGATTAAATGGACGTGTTATTCTTAACAAGAGAACAACCATGCCCAAAGAC
TCAGGTGCATTGCTGGTCTGAAAGTTGTTGGAGGAAAAATGACTGACTTAGGACGACTTGGTGCTTTCA
TCACCAAAGTAAAGAAGGGTAGCCTAGCAGATGTAGTTGGACACCTAAGAGCAGGGGATGAAGTTCTAGA
ATGGAATGGTAAACCCCTGCCGGGAGCTACAAATGAAGAAGTTTACAACATTATTTTAGAATCAAAATCA
GAACCTCAAGTTGAAATTATTGTTTCAAGGCCTATTGGTGACATTCCCCGGATTCCTGAGAGCTCCCACC
CTCCACTGGAGTCCAGTTCAGTTCCTTTGAATCTCAGAAGATGGAAGGCCCTCCATTTCTGTTATTTT
TCCAACAAGTCTGGAGCTCTAAAAGATGCCCAAGTCTTACCAGGGCACTTTCTGTGAAGTTGTGG
TATGATAAAGTGGGACACCAGCTGATTGTAATGTTCTGCAAGCAACAGATCTACCTGCTAGAGTAGATG
GACGTCCTCGAAATCCCTATGTAATAATGATTTTTCTTCCAGATAGAAGTGATAAAAGTAAAAGGAGGAC
CAAAACAGTAAAGAAAATACTAGAACCAAAATGGAATCAAACCTTTTGTCTATTACATGTACATCGTAGA
GATTTTAGAGAACGAATGTTAGAAAATACTGTGTGGGACCAACCAAGAGTGCAAGAAGAAGAAAGTGAAT
TTCTTGGAGAGATCCTCATAGAATTGGAGACAGCGCTTTTAGATGATGAACCGCATTGGTATAAACTTCA
GACACATGATGAGTCTTCACTACCTCTGCCTCAGCCATCACCTTTCATGCCAAGGCGACATTTTCATGGA
GAAAGCTCTAGCAAAAAGCTACAAGATCTCAGCGAATCAGTGATAGTGACATCTCAGATTATGAGGTTG
ATGATGGTATTGGCGTAGTTCCTCCAGTAGGCTATAGGCTAGTGCTAGAGAAAATGTAACATCAACAT
AACTGTGCCAGAACAGCAAGAACAACACTCACCGCTCACGTTCAAGTATCTCCTCATCGCGGCAATGAT
CAGGAAAAGCCGCTTCCGTTTACCAATGTGCCATTACAGAGGAGTTAGATGAAATTCATCCAACA
GAAGGTCACGTTCTCAACCAGACACCATGATGCCTCCCAGAGTCCAGTTGATCATAGAACCAGAGATGT
GGATAGTCAGTATTTATCAGAACAAGACAGTGAGCTTCTTATGCTGCCAGAGCAAAACGAGGACGAAGT
GCAGAATGCCTACATACTACCAGTGAATGCAGCCCTTCTTGACAGGGCTAGGAGTGCTAGTACCAACT
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CATCCAAAACAGACTAGGAAAGGCACTGCCTCTGATGCAGAAAAGTGCACCGACAGAGAAGTCCAACA
CAATCTCCTCCAGCAGACACATCGTTCAGCAGTGCAGGGGAAGACAGCTCCCACAAGTCCAGTGAGAA
GCGGCAGTATAGAACAAGAGTCGGGCCACAAAAGTTAAAAGTACCATCCAGAGAAGCAGAGAAACAGG
CATGGCAGCTGAAATGAGAAAGATGGTAAGGCAGCCGAGCCGAGAGTCTACTGATGGCAGCATCAACAGT
TACAGCTCTGAGGGCAATTAATATTTCTGGAGTGCAGCTGGGAGCTGACAGTCAATTCAGTGATTTTC
TTGATGGATTGGGACCAGCCAGCTTGTGGCCGCCAAACCCCTTGCCACCCTGCAATGGGTGATATACA
AATAGGAATGGAGGACAAAAGGGCCAATTAGAAGTGGAAAGTATTAGAGCACGAAGCCTCACACAAAAG
CCTGGTTCCAAATCTACACCTGCTCCATATGTCAAAGTATATCTTTGGAAAATGGGGCCTGTATAGCCA
AGAAGAAGACAAGAATTGCACGAAAACCCCTTGATCCTTTGATCAGCAGTCTCTGGTTTTGTGAAAG
TCCACAGGGTAAAGTTCTCAGGTGATTGTCTGGGGAGACTATGGCAGAATGGACCACAAATGCTTTATG
GGTGTGGCTCAGATCTTGTGGAAGAACTCGACCTGTCCAGCATGGTGTGCGGATGGTACAAATTGTTCC
CACCGTCTCACTGGTGGATCCCACACTACTCCCTCACCCGGCGGGCTTCCAGTCATCTCTGAAAAG
TTCAACTGGGCCTCCCTGATTTCGATCA

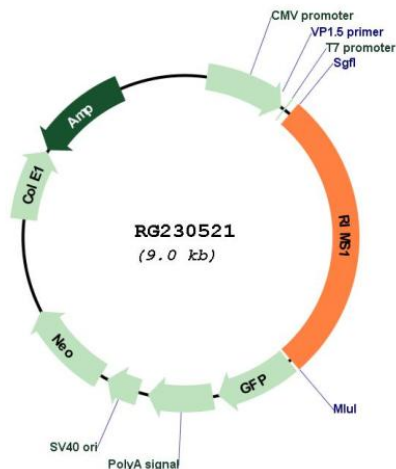
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230521 representing NM_001168410
Red=Cloning site Green=Tags(s)

MFAGFLQFLLLHTLHSGTGDLDDYWLDPATWHSRETSPISSHPVTWQPSKEGDRLEIGRVILNKRTTMPKD
SGALLGLKVVGGKMTDLGRLGAFITKVKKGLADVGHLAGDEVLEWNGKPLPGATNEEVYNIILES
EPQVEIIVSRPIGDIPIPESSHPPLESSSSSFESQKMERPSISVISPTSPGALKDAPQVLPQQLSVKLW
YDKVGHQLIVNVLQATDLPARVDGRPRNPYVKMYFLPDRSDKSKRRTKTVKKILEPKWNQTFVYSHVHRR
DFRERMLEITVWDQPRVQEESEFLGEILIELETALLDDEPHWYKLQTHDESSLPLPQSPFMPRRHIHG
ESSSKLQRSQRISDSISDYEVDDGIGVPPVGYRSSARESKSTLTVPEQQRTHHRSRSVSPHRGND
QGKPRSRLPNVPLQRSLDEIHPTRRSRSPTRHHDASRSPVDHRTRDVSQYLSEQDSELLMLPRAKRGRS
AECLHTTSELQPFLDRARSASTNCLRPDLSLHSPERERHSRKSERSSIQKQTRKGTASDAERMHRQRSP
QSPPADTSFSSRRGRQLPQVPVRSGSIEQESGHKKLKSTIQRSTETGMAAEMRKMVRQPSRESTDGSINS
YSSEGNLIFPGVRLGADSQFSDFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARSLTQK
PGSKSTPAPYVKVYLLENGACIAKKKTRIAARKTLDPLVYQSLVFDESPQGVLVQIVWGDYGRMDHKCFM
GVAQILLEELDLSSMVGWYKLFPPSSLVDPTLTPLTRRASQSSLESSTGPPCIRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Plasmid Map:


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 Size: 5346 bp

RefSeq ORF: 2481 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]