

Product datasheet for **RC230481**

RIM1 (RIMS1) (NM_001168409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIM1 (RIMS1) (NM_001168409) 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:

>RC230481 representing NM_001168409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAAGACTCAGGTGCATTGCTGGGTCTGAAAGTTGTTGGAGGAAAAATGACTGACTTAGGACGAC
 TTGGTGCTTTCATCACCAAAGTAAAGAAGGGTAGCCTAGCAGATGTAGTTGGACACCTAAGAGCAGGGGA
 TGAAGTCTAGAATGGAATGGTAAACCCCTGCCGGGAGCTACAAATGAAGAAGTTTACAACATTATTTTA
 GAATCAAATCAGAACCTCAAGTTGAAATTATTGTTTCAAGGCCTATTGGTGACATTCCCCGGATTCCCTG
 AGAGCTCCACCCTCCACTGGAGTCCAGTTCAGTTTCTTTGAATCTCAGAAGATGGAAAGGCCTCCAT
 TTCTGTTATTTCTCCAACAAGTCTGGAGCTCTAAAAGATGCCCCACAAGTCTTACCAGGGCAACTTTCT
 GTGAAGTTGTGGTATGATAAAGTGGGACACCAGCTGATTGTAATGTTCTGCAAGCAACAGATCTACCTG
 CTAGAGTAGATGGACGTCTCGAAATCCCTATGAAAAATGATTTTCTCCAGATAGAAGTGATAAAAG
 TAAAAGGAGGACAAAACAGTAAAGAAAATACTAGAACAAAATGGAATCAAACCTTTTGTCTATTACAT
 GTACATCGTAGAGATTTTAGAGAACGAATGTAGAAAATACTGTGTGGGACCAACCAAGAGTGCAAGAAG
 AAGAAAGTGAATTTCTTGAGAGATCCTCATAGAATTGGAGACAGCGCTTTTAGATGATGAACCGCATTG
 GTATAAATTCAGACACATGATGAGTCTTCACTACCTCTGCCTCAGCCATCACCTTTTCATGCCAAGGCGA
 CATATTCATGGAGAAAGCTTAGCAAAAAGCTACAAAAGATCTCAGCGAATCAGTGATAGTGACATCTCAG
 ATTATGAGGTTGATGATGGTATTGGCGTAGTTCCTCCAGTAGGCTATAGGTCTAGTGCTAGAGAAAGTAA
 ATCTACAACATTAAGTGTGCCAGAACAGCAAAGAACAACCTCATCACCGCTCACGTTACAGTATCTCCTCAT
 CGCGGCAATGATCAGGGAAAGCCGCGTTACGTTTACCAATGTGCCATTACAGAGGAGTTTAGATGAAA
 TTCATCCAACAAGAAGGTCAGTTCTCCAACCAGACACCATGATGCCTCCCGAAGTCCAGTTGATCATAG
 AACAGAGATGTGGATAGTCAGTATTTATCAGAACAAGACAGTGAGCTTCTTATGCTGCCAGAGCAAAA
 CGAGGACGAAGTGCAGAATGCCTACATACTACCAGTGAAGTGCAGCCCTTTCTTGACAGGGCTAGGAGTG
 CTAGTACCAACTGCTTGAGACCAGATACTAGTTTGCATTCACCAGAACGAGAAAGGCACTCCAGAAAGTC
 TGAAAGATCTAGCATCCAAAACAGACTAGGAAAGGCACTGCCTCTGATGCAGAAAGAATGCACCGACAG
 AGAAGTCCAACACAATCTCCTCCAGCAGACACATCGTTCAGCAGTCGCAGGGGAAGACAGCTCCACAAG
 TGCCAGTGAGAAGCGGCAGTATAGAACAAGAGTCGGGCCACAAAAGTAAAAAGTACCATCCAGAGAAG
 CACAGAAACAGGCATGGCAGCTGAAATGAGAAAGATGGTAAGGCAGCCGAGCCGAGAGTCTACTGATGGC
 AGCATCAACAGTTACAGCTCTGAGGGCAATTTAATATTTCTGGAGTGCAGCTGGGAGCTGACAGTCAAT
 TCAGTGATTTTCTTGATGGATTGGGACCAGCCAGCTTGTGGCCGCAAAACCCTTGCCACCCTGCAAT
 GGGTGATATACAAATAGGAATGGAGGACAAAAGGGCCAATTAGAAGTGAAGTCATTAGAGCACGAAGC
 CTCACACAAAAGCCTGGTTCCAATCTACACCTGCTCCATATGTCAAAGTATATCTTTGGAAAATGGGG
 CCTGTATAGCCAAGAAGAAGACAAGAAATGCACGAAAACCCCTTGATCCTTTGTATCAGCAGTCTCTGGT
 TTTTGATGAAAGTCCACAGGGTAAAGTTCTTCAGGTGATTGTCTGGGGAGACTATGGCAGAATGGACCAC
 AAATGCTTTATGGGTGTGGCTCAGATCTTGTGGGAAGAACTCGACCTGTCCAGCATGGTGATCGGATGGT
 ACAAAATGTTCCACCGTCTCACTGGTGGATCCACACTCACTCCCCTCACCCGGCGGGCTTCCAGATC
 ATCTCTGGAAGTCAACTGGCCTCCCTGTATTTCGATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230481 representing NM_001168409
 Red=Cloning site Green=Tags(s)

MPKDSGALLGLKVVGGKMTDLGRLGAFITKVKKGLADVVGHLAGDEVLEWNGKPLPGATNEEVYNIIL
 ESKSEPQVEIIVSRPIGDIPRIPESSHPPLESSSSSFESQKMERPSISVISPSPGALKDAPQVLPQOLS
 VKLWYDKVGHQLIVNVLQATDLPARVDGRPRNPYVKMYFLPDRSDKSKRRTKTVKKILEPKWNQTFVYSH
 VHRDFRERMLEITVWDQPRVQEESEFLGEILIELETALLDDEPHWYKLTQTHDESSLPLPQPSPFMPRR
 HIHGESSKLLQRSQRI SDSDISDYEVDDGIGVPPVGYRSSARESKSTLTVPEQQRTHHRSRSVSPH
 RGNDQGGKPRSRPNVPLQRSLDEIHPTRRSRSPTRHHDASRSPVDHRTRDVSQYLSEQDSELLMLPRAK
 RGRSAECLHTTSELQPFLDRARSASTNCLRPTDSLHSPERERHSRKSERSSIQKQTRKGTASDAERMHRQ
 RSPTQSPPADTSFSSRRGRQLPQVPVRSISIEQESGHKKLKSTIQRSTETGMAAEMRKMVRQPSRESTDG
 SINSYSSEGNLIFPGVRLGADSQFSDFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARS
 LTQKPGSKSTPAPYVKVYLLENGACIAKKKTRIAKRTLDPLYQQSLVFDESPQGGKLVQIVWGDYGRMDH
 KCFMGVAQILLEELDLSMVIWYKLFPPSSLDVPTLTPLTRRASQSSLESSTGPPCIRS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001168409

ORF Size: 2280 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_001168409.2](#)

RefSeq ORF: 2283 bp

Locus ID: 22999

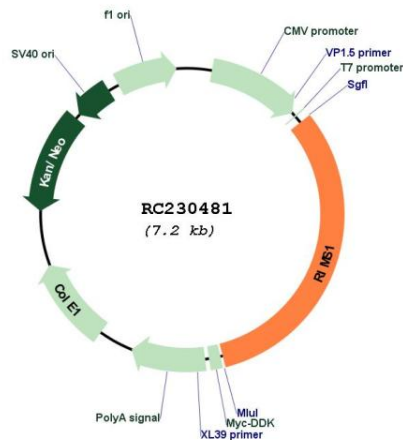
UniProt ID: [Q86UR5](#)

Cytogenetics: 6q13

MW: 85.6 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 RC230481