

Product datasheet for **RC230513**

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:	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:

>RC230513 representing NM_001168408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGCACCTGGGATTCATGTCTCTTCAGAAGGGTGGGAAGAAGTGAGGTCTGTTGATTCCGAAGAGG
 GAACAATTGAAGCTCGACGAGCAGTTGCTGGTGATTTGGATTATTACTGGTTGGATCCTGCCACGTGGCA
 CAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACGTGGCAACCATCTAAAGAGGGGGACCGATTA
 ATTGGACGTGTTATTCTTAAACAAGAGAACAACCATGCCCAAAGACTCAGGTGCATTGCTGGGTCTGAAAG
 TTGTTGGAGGAAAAATGACTGACTTAGGACGACTTGGTGTCTTCATACCAAAGTAAAGAAGGGTAGCCT
 AGCAGATGTAGTTGGACACCTAAGAGCAGGGGATGAAGTTCTAGAATGGAATGGTAAACCCCTGCCGGGA
 GCTACAAATGAAGAAGTTTACAACATTATTTAGAATCAAATCAGAACCTCAAGTTGAAATTATTGTTT
 CAAGGCCATTGGTGACATTCGCCGATTCTGAGAGCTCCACCCTCCACTGGAGTCCAGTTCAAGTTC
 CTTTGAATCTCAGAAGATGGAAAGCCCTCCATTTCTGTTATTTCTCAACAAGTCTGGAGCTCTAAAA
 GATGCCCCACAAGTCTTACCAGGGCAACTTTCTGTGAAGTTGTGGTATGATAAAGTGGGACACCAGCTGA
 TTGTAATGTTCTGCAAGCAACAGATCTACCTGCTAGAGTAGATGGACGTCTCGAAATCCCTATGTAAA
 AATGTATTTTCTCCAGATAGAAGTGATAAAAGTAAAAGGAGGACCAAAACAGTAAAGAAAACTAGAA
 CCAAAATGGAAATCAAACTTTTGTCTATTCACATGTACATCGTAGAGATTTTAGAGAACGAATGTTAGAAA
 TAACTGTGTGGGACCAACCAAGAGTGCAAGAAGAAGAAAGTGAATTTCTTGAGAGATCCTCATAGAATT
 GGAGACAGCGCTTTTAGATGATGAACCGCATTGGTATAAACTTCAGACACATGATGAGTCTTCACTACCT
 CTGCCTCAGCCATCACCTTTTCATGCCAAGGCGACATATTCATGGAGAAAGCTTAGCAAAAAGCTACAAA
 GATCTCAGCGAATCAGTGATGACATTCAGATTATGAGGTTGATGATGGTATTGGCGTAGTTCCTCC
 AGTAGGCTATAGGTCTAGTGCTAGAGAAAAGTAAATCTACAACATTAAGTGTGCCAGAACAGCAAGAACA
 ACTCATACCCGCTCACGTTCAAGTATCTCCTCATCGCGCAATGATCAGGGAAAGCCGCGTTACGTTTAC
 CAAATGTGCCATTACAGAGGAGTTAGATGAAATTCATCCAACAAGAAGTACGTTCTCCAACCAGACA
 CCATGATGCCTCCGAAGTCCAGTTGATCATAGAACCAGAGATGTGGATAGTCAGTATTTATCAGAACAA
 GACAGTGAGCTTCTTATGCTGCCAGAGCAAAACGAGGACGAAGTGCAGAATGCCTACATACTACCAGTG
 AACTGCAGCCCTTTCTTGACAGGGCTAGGAGTGCTAGTACCAACTGCTTGAGACCAGATACTAGTTTGA
 TTCACCAGAACGAGAAAGTGCACCGACAGAGAAGTCCAACACAATCTCCTCCAGCAGACACATCGTTC
 AGCAGTCGCAGGGGAAGACAGCTCCACAAGTCCAGTGAGAAGCGGCAGTATAGAACAAGAGTCGGGCC
 ACAAAAAGTTAAAAAGTACCATCCAGAGAAGCACAGAAACAGGCATGGCAGCTGAAATGAGAAAGATGGT
 AAGGCAGCCGAGCCGAGAGTCTACTGATGGCAGCATCAACAGTTACAGCTCTGAGGGCAATTTAATATT
 CCTGGAGTGCGACTGGGAGCTGACAGTCAATTCAGTGATTTTCTTGATGGATTGGGACCAGCCCAGCTTG
 TTGGCCGCCAAACCCCTTGCCACCCTGCAATGGGTGATATACAAATAGGAATGGAGGACAAAAAGGGCCA
 ATTAGAAGTGGAAAGTCATTAGAGCACGAAGCCTCACACAAAAGCCTGGTTCCAAATCTACACCTGCTCCA
 TATGTCAAAGTATATCTTTGGAAAATGGGGCCTGTATAGCCAAGAAGAAGACAAGAATTGCACGAAAAA
 CCCTTGATCCTTTGTATCAGCAGTCTCTGGTTTTGATGAAAGTCCACAGGGTAAAGTCTTCAGGTGAT
 TGCTGGGGAGACTATGGCAGAATGGACCACAAATGCTTTATGGGTGGGCTCAGATCTTGTTGGAAGAA
 CTCGACCTGTCCAGCATGGTGTATCGGATGGTACAAATGTTCCACCGTCTCACTGGTGGATCCCACAC
 TCACTCCCTCACCCGGCGGGCTTCCAGTCATCTCTGAAAGTTCAACTGGGCCTCCCTGTATTGATC
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230513 representing NM_001168408
Red=Cloning site Green=Tags(s)

MCAPGIHVSSEGWEEVRSVDSEEGTIEARRAVAGDLDDYYWLDPATWHSRETSPISSHPVTWQPSKEGDRL
IGRVILNKRTTMPKDSGALLGLKVVGGKMTDLGRLGAFITKVKKGLADVVGHLAGDEVLEWNGKPLPG
ATNEEVYNIILESKSEPQVEIIVSRPIGDIPRIPESSHPPLESSSSSFESQKMERPSISVISPTSPGALK
DAPQVLPQQLSVKLVYDKVGHQLIVNVLQATDLPARVDGRPRNPYVKMYFLPDRSDKSKRRTKTVKKILE
PKWNQTFVYSHVHRRDFRERMLEITVWDQPRVQEESEFLGEILIELETALLDDEPHWYKLQTHDESSLP
LPQSPFMPRRHIHGESSKQLQRSQRISSDSISDYEVDDGIGVVPPVGYRSSARESSTLTVPEQQRT
THHRSRVSPHRGNDQGGKPRSRLPNVPLQRSLDEIHPTRRSRSPTRHHDASRSPVDHRTRDVSQYLSEQ
DSELLMLPRAKRGRSAECLHTTSELQPFLDRARSASTNCLRPDTSLHSPERERMHRQRSPTQSPPADTSF
SSRRGRQLPQVPVRSIEQESGHKLLKSTIQRSTETGMAAEMRKMVRQPSRESTDGSINSYSSEGNLIF
PGVRLGADSQFSDFLDGLGPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARSLTQKPGSKSTPAP
YVKVYLLENGACIAKKKTRIAKRTLDPYQQSLVFDESPQGVLVQVIVWGDYGRMDHKCFMGVAQILLEE
LDLSSMIVGWYKLFPPSSLVDPTLTPLTRRASQSSLESSTGPPCIRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


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 ORF: 2454 bp

Locus ID: 22999

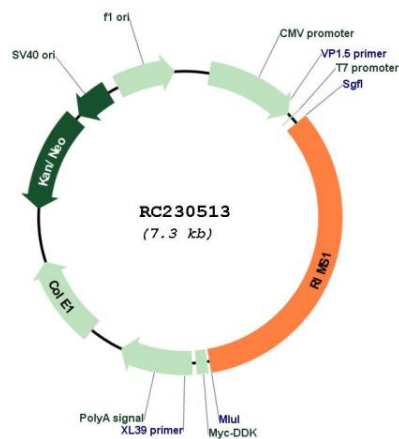
UniProt ID: [Q86UR5](#)

Cytogenetics: 6q13

MW: 92 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 RC230513