

Product datasheet for **SC329257**

RIM1 (RIMS1) (NM_001168407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIM1 (RIMS1) (NM_001168407) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIMS1
Synonyms:	CORD7; RAB3IP2; RIM; RIM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001168407, the custom clone sequence may differ by one or more nucleotides

```

ATGTGTGCACCTGGGATTCATGTCTCTTCAGAAGGGTGGGAAGAAGTGAGGTCTGTTGAT
TCCGAAGAGGGAACAATTGAAGCTCGACGAGCAGTTGCTGGTGATTTGGATTATTACTGG
TTGGATCTGCCACGTGGCACAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACG
TGGCAACCATCTAAAGAGGGGGACCGATTAATTGGACGTGTTATTCTTAACAAGAGAACA
ACCATGCCAAAGACTCAGGTGCATTGCTGGGTCTGAAAGTTGTTGGAGGAAAAATGACT
GACTTAGGACGACTTGGTCTTTCATCACCAGTAAAGAAGGGTAGCCTAGCAGATGTA
GTTGGACACCTAAGAGCAGGGGATGAAGTTCTAGAATGGAATGGTAAACCCCTGCCGGGA
GCTACAAATGAAGAAGTTTACAACATTATTTAGAATCAAAATCAGAACCTCAAGTTGAA
ATTATTGTTTCAAGGCCTATTGGTGACATTCCTCCGGATTCTGAGAGCTCCACCCCTCCA
CTGGAGTCCAGTTCAGTTTCCTTTGAATCTCAGAAGATGGAAAGGCCTCCATTTCTGTT
ATTTCTCCAACAAGTCTGGAGCTCTAAAAGATGCCCCACAAGTCTTACCAGGGCAACT
TCTGTGAAGTTGTGGTATGATAAAGTGGGACACCAGCTGATTGTAATGTTCTGCAAGCA
ACAGATCTACCTGCTAGAGTAGATGGACGTCCTCGAAATCCCTATGTAATAATGTATTTT
CTTCCAGATAGAAGTGATAAAAGTAAAAGGAGGACCAAAACAGTAAAGAAAACTAGAA
CCAAAATGGAATCAAACTTTTGTCTATTCACATGTACATCGTAGAGATTTTAGAGAACGA
ATGTTAGAAATAACTGTGTGGGACCAACCAAGAGTGCAAGAAGAAGAAAGTGAATTTCTT
GGAGAGATCCTCATAGAATTGGAGACAGCGCTTTTAGATGATGAACCGCATTGGTATAAA
CTTCAGACACATGATGAGTCTTCACTACCTCTGCCTCAGCCATCACCTTTTCATGCCAAGG
CGACATATTCATGGAGAAAGCTCTAGCAAAAAGCTACAAAAGATCTCAGCGAATCAGTGAT
AGTGACATCTCAGATTATGAGGTTGATGATGGTATTGGCGTAGTTCCTCCAGGCTATAGG
TCTAGTGCTAGAGAAAGTAAATCTACAACATTAAGTGTGCCAGAACAGCAAGAACAACCT
CATCACCGCTCACGTTTCAGTATCTCTCATCGCGGCAATGATCAGGGAAAGCCGCGTTCA
CGTTTACCAAATGTGCCATTACAGAGGAGTTTAGATGAAATTCATCCAACAAGAAGGTCA
CGTTCTCCAACCAGACACCATGATGCCTCCGAAGTCCAGTTGATCATAGAACCAGAGAT
GTGGATAGTCAGTATTTATCAGAACAAGACAGTGAGCTTCTTATGCTGCCAGAGCAAAA

```



[View online »](#)

```

CGAGGACGAAGTGCAGAATGCCTACATACTACCACTGAACTGCAGCCCTTTCTTGACAGG
GCTAGGAGTGCTAGTACCAACTGCTTGAGACCAGATACTAGTTTGCATTCACCAGAACGA
GAAAGGCACTCCAGAAAGTCTGAAAGATCTAGCATCCAAAAACAGACTAGGAAAGGCACT
GCCTCTGATGCAGAAAGAATGCACCCGACAGAGAAGTCCAACACAATCTCCTCCAGCAGAC
ACATCGTTTCAGCAGTCGCAGGGGAAGACAGCTCCCACAAGTGCCAGTGAGAAGCGGCAGT
ATAGAACAAGCAAGCTTAGTAGTGGAGGAGCGAACAAGACAGATGAAAATGAAAGTGCAT
CGATTTAAGCAGACAACAGGGTCTGGTTCTAGTCAAGAAGTTCGCGAGCAATATTCC
AAGTATAACATACATAAAAGATCAGTACAGAAGCTGTGATAACGTCTCTGCCAAATCATCA
GATAGTGATGTCAGTGATGTTTCCGCCATTTCCGAACCAAGCAGTGCCTCACGCCTCAGC
AGCACAAGCTTTATGTCAGAGCAATCTGAGCGCCCCAGGGGTAGAATCAGTTCATTTACC
CCCAAAATGCAAGGCAGACGGATGGGGACTTCAGGAAGATCCATCATGAAGAGCACCAGT
GTCAGTGGAGAGATGTACACACTGGAGCATAATGACGGCAGCCAGTCAGACACAGCTGTG
GGTACAGTTGGAGCAGGTGGAAGAAAACGGAGATCCAGCCTTAGTCCAAAGTGGTTGCC
ATAGTGTCTCGAAGGAGTAGAAGCACATCCAGCTTAGTCAAACAGAGTCGGGCCACAAA
AAGTTAAAAAGTACCATCCAGAGAAGCACAGAAACAGGCATGGCAGCTGAAATGAGAAG
ATGGTAAGGCAGCCGAGCCGAGAGTCTACTGATGGCAGCATCAACAGTTACAGCTCTGAG
GGCAATTTAATATTTCTGGAGTGCAGTGGGAGCTGACAGTCAATTCAGTGATTTTCTT
GATGGATTGGGACCAGCCAGCTTGTGGCCGCCAAACCCCTTGCCACCCCTGCAATGGGT
GATATACAAAATAGGAATGGAGGACAAAAAGGGCCAATTAGAAGTGGAAAGTCATTAGAGCA
CGAAGCCTCACACAAAAGCCTGGTTCCAAATCTACACCTGCTCCATATGTCAAAGTATAT
CTTTTGGAAAATGGGGCCTGTATAGCCAAGAAGAAGACAAGAATTGCACGAAAAACCCCT
GATCCTTTGTATCAGCAGTCTCTGGTTTTTGATGAAAGTCCACAGGGTAAAGTTCTCAG
GTGATTGTCTGGGAGACTATGGCAGAATGGACCACAAATGCTTTATGGGTGTGGCTCAG
ATCTTGTGGAAAGAACTCGACCTGTCCAGCATGGTGATCGGATGGTACAATTGTTCCCA
CCGTCCTCACTGGTGGATCCCACACTACTCCCCTCACCCGCGGGCTTCCCAGTCATCT
CTGAAAAGTTCAACTGGGCTCCCTGTATTTCGATCATAG

```

- Restriction Sites:** Please inquire
- ACCN:** NM_001168407
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001168407.1](#), [NP_001161879.1](#)

RefSeq Size: 5787 bp

RefSeq ORF: 3039 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]

Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus and internal differences, compared to isoform 1.