

Product datasheet for **SC329151**

RIM1 (RIMS1) (NM_001168408) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | RIM1 (RIMS1) (NM_001168408) 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) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001168408, the custom clone sequence may differ by one or more nucleotides

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ATGTGTGCACCTGGGATTCATGTCTCTTCAGAAGGGTGGGAAGAAGTGAGGTCTGTTGAT
TCCGAAGAGGGAACAATTGAAGCTCGACGAGCAGTTGCTGGTGATTTGGATTATTACTGG
TTGGATCCTGCCACGTGGCACAGCCGGGAGACATCACCTATTAGTTCGCATCCTGTAACG
TGGCAACCATCTAAAGAGGGGGACCGATTAAATTGGACGTGTTATTCTTAAACAAGAGAACA
ACCATGCCCAAAGACTCAGGTGCATTGCTGGGTCTGAAAGTTGTTGGAGGAAAAATGACT
GACTTAGGACGACTTGGTGCTTTTCATCACCAAAGTAAAGAAGGGTAGCCTAGCAGATGTA
GTTGGACACCTAAGAGCAGGGGATGAAGTTCTAGAATGGAATGGTAAACCCTGCCGGGA
GCTACAAATGAAGAAGTTTACAACATTATTTAGAAATCAAATCAGAACCTCAAGTTGAA
ATTATTGTTTCAAGGCCTATTGGTGACATTCCCCGGATTCTGAGAGCTCCACCCTCCA
CTGGAGTCCAGTCAAGTTCCTTTGAATCTCAGAAGATGGAAAGGCCTTCCATTTCTGTT
ATTTCTCCAACAAGTCTGGAGCTCTAAAAGATGCCCCACAAGTCTTACCAGGGCAACTT
TCTGTGAAGTTGGTATGATAAAGTGGGACACCAGCTGATTGTAATGTTCTGCAAGCA
ACAGATCTACCTGCTAGAGTAGATGGACGTCCTCGAAATCCCTATGTA AAAATGTATTTT
CTTCCAGATAGAAGTGATAAAAGTAAAAGGAGGACCAAAACAGTAAAGAAAATACTAGAA
CCAAAATGGAATCAAACCTTTTGTCTATTACATGTACATCGTAGAGATTTTAGAGAACGA
ATGTTAGAAAATACTGTGTGGGACCAACCAAGAGTGCAAGAAGAAGAAAGTGAATTTCTT
GGAGAGATCCTCATAGAATTGGAGACAGCGCTTTTAGATGATGAACCGCATTGGTATAAA
CTTCAGACACATGATGAGTCTTCACTACCTCTGCCTCAGCCATCACCTTTTCATGCCAAGG
CGACATATTCATGGAGAAAGCTTAGCAAAAAGCTACAAAGATCTCAGCGAATCAGTGAT
AGTGACATCTCAGATTATGAGGTTGATGATGGTATTGGCGTAGTTCCTCCAGTAGGCTAT
AGGTCTAGTGCTAGAGAAAGTAAATCTACAACATTAAGTGTGCCAGAACAGCAAGAACA
ACTCATACCGCTCACGTTCAAGTATCTCCTCATCGCGCAATGATCAGGGAAAGCCGCGT
TCACGTTTACCAATGTGCCATTACAGAGGAGTTTAGATGAAATTCATCCAACAAGAAGG
TCACGTTCTCCAACCAGACACCATGATGCCTCCCGAAGTCCAGTTGATCATAGAACCAGA
GATGTGGATAGTCAGTATTTATCAGAACAAGACAGTGAGCTTCTTATGCTGCCAGAGCA
AAACGAGGACGAAGTGCAGAATGCCTACATACTACCAGTGAAGTGCAGCCCTTTCTTGAC
AGGGCTAGGAGTCTAGTACCAACTGCTTGAGACCAGATACTAGTTTGCATTACCAGAA
CGAAGAAAGATGCACCGACAGAGAAGTCCAACACAATCTCCTCCAGCAGACACATCGTTC
AGCAGTCGCAGGGGAAGACAGCTCCACAAAGTCCAGTGAGAAGCGGCAGTATAGAACA
GAGTCGGGCCACAAAAAGTTAAAAAGTACCATCCAGAGAAGCACAGAAACAGGCATGGCA
GCTGAAATGAGAAAGATGGTAAGGCAGCCGAGCCGAGAGTCTACTGATGGCAGCATCAAC
AGTTACAGCTCTGAGGGCAATTTAATATTTCTGGAGTGCAGTGGGAGCTGACAGTCAA
TTCAGTGATTTTCTTGATGGATTGGGACCAGCCAGCTTGTGGCCGCAAAACCTTGCC
ACCCCTGCAATGGGTGATATACAAATAGGAATGGAGGACAAAAAGGGCAATTAGAAGTG
GAAGTCATTAGAGCACGAAGCCTCACACAAAAGCCTGGTTCCAAATCTACACCTGCTCCA
TATGTCAAAGTATATCTTTTGGAAAATGGGGCCTGTATAGCCAAGAAGAAGACAAGAATT
GCACGAAAAACCCTTGATCCTTTGTATCAGCAGTCTCTGGTTTTTGATGAAAGTCCACAG
GGTAAAGTCTTTCAGGTGATTGTCTGGGAGACTATGGCAGAATGGACCACAAATGCTTT
ATGGGTGTGGCTCAGATCTTGTGGAAGAACTCGACCTGTCCAGCATGGTGATCGGATGG
TACAAATTGTTCCACCGTCTCACTGGTGGATCCACACTCACTCCCCTCACCCGGCGG
GCTTCCAGTCATCTCTGAAAGTTCAACTGGGCTCCCTGTATTTCGATCATAG

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Restriction Sites: Please inquire

ACCN: NM_001168408

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).

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001168408.1</u> , <u>NP_001161880.1</u> |
| RefSeq Size: | 5202 bp |
| RefSeq ORF: | 2454 bp |
| Locus ID: | 22999 |
| UniProt ID: | <u>Q86UR5</u> |
| Cytogenetics: | 6q13 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus and internal differences, compared to isoform 1.</p> |