

## Product datasheet for **SC335079**

### RIM2 (RIMS2) (NM\_001282882) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | RIM2 (RIMS2) (NM_001282882) Human Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | RIM2   |
| Synonyms:                 | CRSDS; OBOE; RAB3IP3; RIM2   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001282882, the custom clone sequence may differ by one or more nucleotides |

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ATGGGCCGGCAGGGCTTGGGGGTGCCAGCGCTGCGGGGCGCTCCATGCAGCGCTCCCAGAGCCGGAGTA
GCCTGTCTGCCTCCTTCGAGGCACTGGCCGGCTACTTTCCCTGCATGAACTCCCTGGAGGAGGAAGAAGG
AGAAGCAGGAGGTAAAAACTAAGGAGCACTGTCAAAGAAGTACAGAAACAGGCCTGGCCGTGGAAATG
AGGAACTGGATGACTCGACAGGCAAGCCGAGAGTCTACAGATGGTAGCATGAACAGCTACAGCTCAGAAG
GAAATCTGATTTCCCTGGTGTTGCTTGGCCTCTGATAGCCAGTTCAGTGATTTCTGGATGGCCTTGG
CCCTGCTCAGCTAGTGGACGCCAGACTCTGGCAACACCTGCAATGGGTGACATTCAGGTAGGAATGATG
GACAAAAGGGACAGCTGGAGGTAGAAATCATCCGGGCCCGTGGCCTTGTGTAACCAGGTTCCAAGA
CACTGCCAGCACCGTATGTAAAAGTGTATCTATTAGATAACGGAGTCTGCATAGCCAAAAGAAAACAAA
AGTGGCAAGAAAACGCTGGAACCCCTTACCAGCAGCTATTATCTTTGAAAGAGAGTCCACAAGGAAAA
GTTTTACAGATCATCGTCTGGGGAGATTATGGCCGCATGGATCACAATCTTTATGGGAGTGGCCACAGA
TACTTTTAGATGAACTAGAGCTATCCAATATGGTGATCGGATGGTTCAAACCTTTCCACCTTCTCCCT
AGTAGATCCAACCTTGGCCCTCTGACAAGAAGAGCTTCCAATCATCTCTGAAAGTTCAACTGGACCT
TCTTACTCTCGTTCATAG

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|--------------------|--|
| Restriction Sites: | Sgfl-MluI  |
| ACCN:              | NM_001282882   |
| 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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|-------------------------------|--|
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u>NM_001282882.1, NP_001269811.1</u>  |
| <b>RefSeq Size:</b>           | 3780 bp  |
| <b>RefSeq ORF:</b>            | 858 bp   |
| <b>Locus ID:</b>              | 9699   |
| <b>UniProt ID:</b>            | <u>Q9UQ26</u>  |
| <b>Cytogenetics:</b>          | 8q22.3   |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is a presynaptic protein that interacts with RAB3, a protein important for normal neurotransmitter release. The encoded protein can also bind several other synaptic proteins, including UNC-13 homolog B, ELKS/Rab6-interacting/CAST family member 1, and synaptotagmin 1. This protein is involved in synaptic membrane exocytosis. Polymorphisms in this gene have been associated with degenerative lumbar scoliosis. [provided by RefSeq, Feb 2017]</p> <p>Transcript Variant: This variant (4) uses an alternate 5' structure compared to variant 1. The encoded isoform (d) is shorter and has a distinct N-terminus compared to isoform 1.</p> |