

## Product datasheet for **SC304198**

### GARNL1 (RALGAPA1) (NM\_014990) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | GARNL1 (RALGAPA1) (NM_014990) Human Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | RALGAPA1  |
| Synonyms:            | GARNL1; GRIPE; NEDHRIT; p240; RalGAPalpha1; TULIP1  |
| Vector:              | <u>pCMV6 series</u>   |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_014990, the custom clone sequence may differ by one or more nucleotides |

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ATGTTCTCCAAGAAGCCGCACGGGGACGTGAAGAAGTCCACCCAGAAGGTGCTAGACACC
AAGAAGGACGCACTGACTCGCCTCAAGCACCTGCGCATCGTCATCGAGAATGCAGAATCT
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CAGCGATGGCAGTTTCATAGTATTGGATTGATTTTAAAGAAGCTACTTCACACAGGAAAC
TCCTTAAAGATTAGCGGGAAGGTGTCGTCTTTTCTACTATGGTTGCAAGCTCTTCAG
AATAACTGTAGCAAAGAACAGCTCTGGATGTTTTATGCTTAATCCCTGGATTTTCAGCA
CCACAGTCTGAACATGGACCTCGAACTTTAGATAATCTCATTAAATCCCTCACTCAACCTT
CAAGAACTCAAGTCACTATAGAAGAAATCACTCCTCTTGTCCCCCACAATCAGGAGAT
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CAGGTA AAAAGTTTAGAATGGAAGAACAAGAAAACCAAGAAAGGGGATTTTCATTTTGT
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CGAGCTGGTACCCAGGCAGTTTTGCAGGTGTTTATTATAAACTCATCAAAATATTTTCTT
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CAGATGCTGCTTGTGTTGCTCAGAGTCACGGAATCTGACTGAAGATGCCATCACAAGCT  
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 TTCCAGACCCTTATAGTTGCCTGGATCAAAGCAAACCTAAATGTGTACATCTCCCAGAA  
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 CCAATGAGCGGTGGTCTGCTATGCTAACAAGTCAGGTGTGTGAAAATCAGGACAATCAT  
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GGCTTGTCAGAACCTACATCTTTTCATGCTTTCATTGTCTCACCAAGAGAAGCCAGAAGAG
CCTCCGACATCTAATGAATGCTTAGAAGATATAACCGTAAAAGATGGACTTCTCTCCAG
TTTAAAAGATTTAGAGAACTGTACCAACTTGGGATACAATAAGAGATGAAGAAGATGTT
CTTGATGAGCTCTTGCAGTATTTGGGTGTTACTAGTCCTGAATGCTTACAGAGAACTGGA
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CGTGCTCTGAAATCTCTGATTCCATTGTATCAAACTTCTATGAGGAGAGAGCAGCATAC
CTGCAACAATTTGCCAGCACCCTTAGAACCAACAACATTTGAAGATTTTGCAGCACAG
GTTTTTCTCCAGCTCCCTACCACCATTACCATCTGATGCCGATCATTA

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**Restriction Sites:**

Please inquire

**ACCN:**

NM\_014990

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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\\_014990.1](#), [NP\\_055805.1](#)

**RefSeq Size:** 7882 bp

**RefSeq ORF:** 6111 bp

**Locus ID:** 253959

**UniProt ID:** [Q6GYQ0](#)

**Cytogenetics:** 14q13.2

**Gene Summary:** This gene encodes a major subunit of the RAL-GTPase activating protein. A similar protein in mouse binds E12, a transcriptional regulator of immunoglobulin genes. The mouse protein also functions in skeletal muscle by binding to the regulatory 14-3-3 proteins upon stimulation with insulin or muscle contraction. A pseudogene of this gene has been identified on chromosome 9. [provided by RefSeq, Oct 2016]

Transcript Variant: This variant (1) encodes the shortest isoform (1). Variants 1 and 6 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.