

Product datasheet for **SC307589**

GARNL1 (RALGAPA1) (NM_194301) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARNL1 (RALGAPA1) (NM_194301) Human Untagged Clone
Tag:	Tag Free
Symbol:	GARNL1
Synonyms:	GARNL1; GRIPE; NEDHRIT; p240; RalGAPalpha1; TULIP1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_194301, the custom clone sequence may differ by one or more nucleotides

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ATGTTCTCCAAGAAGCCGCACGGGGACGTGAAGAAGTCCACCCAGAAGGTGCTAGACACC
AAGAAGGACGCACTGACTCGCCTCAAGCACCTGCGCATCGTCATCGAGAATGCAGAATCT
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CAGCGATGGCAGTTTCATAGTATTGGATTGATTTTAAAGAAGCTACTTCACACAGGAAAC
TCCTTAAAGATTAGCGGGAAGGTGTTCTGCTTTTTCTTACTATGGTTGCAAGCTCTTCAG
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CAAGAACTCAAGTCACTATAGAAGAAATCACTCCTCTTGTCCCCCACAATCAGGAGAT
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CAGGTA AAAAGTTTAGAATGGAAGAACAAGAAAACCAAGAAAGGGGATTTTCATTTTTG
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CAGATGCTGCTTGTGTTGCTCAGAGTCACGGAATCTGACTGAAGATGCCATCACAAGCT
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 TTCCAGACCCTTATAGTTGCCTGGATCAAAGCAAACCTAAATGTGTACATCTCCCAGAA
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 GATCTCTGGAATAATTCATGGGATTCTGCTACTGTATGGCCACCTCCTGTAAGT

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GGCTTGTCAGAACCTACATCTTTTCATGCTTTCATTGTCTCACCAAGAGAAGCCAGAAGAG
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TTTAAAAGATTTAGAGAACTGTACCAACTGGGATACAATAAGAGATGAAGAAGATGTT
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ATCTCACTTAATATTCCTGCTCCACAACCTGTGTGCATTTCTGAAAAACAAGAAAATGAT
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AGGAGCTTTCATCTCCTGAAGAAAAATGAAAAGCTACTTAGAGAAGTTAGGAAGTTGGAT
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TCTCCTCGAACTAGCAAAAAGCCGCATGTCCATGAAGCTGCGTCGTTCTCTGGCTCAGCC
AATAAATCCTAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_194301
- 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_194301.2](#), [NP_919277.2](#)
- RefSeq Size:** 7851 bp

RefSeq ORF: 6252 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 (2) differs in the 3' UTR and lacks an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) is longer and has a distinct C-terminus, compared to isoform 1. Isoforms 2 and 4 are the same length, but have distinct protein sequences. 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.