

Product datasheet for **SC338125**

GARNL1 (RALGAPA1) (NM_001283044) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GARNL1 (RALGAPA1) (NM_001283044) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RALGAPA1 |
| Synonyms: | GARNL1; GRIPE; NEDHRIT; p240; RalGAPalpha1; TULIP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001283044, the custom clone sequence may differ by one or more nucleotides |

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ATGTTCTCCAAGAAGCCGCACGGGGACGTGAAGAAGTCCACCCAGAAGGTGCTAGACACCAAGAAGGACG
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 TTTCTCTCCAGTTTAAAAGATTTAGAGAACTGTACCAACTTGGGATACAATAAGAGATGAAGAAGATGT
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AATATTCCTGCTCCACAACCTGTGTGCATTTCTGAAAAACAAGAAAATGATGTTATTAATGCTATCCTTA
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ACCACTTAGAACCAACAACATTTGAAGATTTTGCAGCACAGGTTTTTTCTCCAGCTCCCTACCACATTT
ACCATCTGATGCCGATCATTA
    
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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_001283044 |
| 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). |
| 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_001283044.1</u> , <u>NP_001269973.1</u> |
| RefSeq Size: | 6666 bp |
| RefSeq ORF: | 6252 bp |
| Locus ID: | 253959 |
| UniProt ID: | <u>Q6GYQ0</u> |
| 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 (4) contains an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (4) is longer than isoform 1. Variants 4 and 7 encode the same isoform (4). 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.