

Product datasheet for RC216040

GARNL1 (RALGAPA1) (NM_014990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARNL1 (RALGAPA1) (NM_014990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GARNL1
Synonyms:	GARNL1; GRIPE; NEDHRIT; p240; RalGAPalpha1; TULIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216040 representing NM_014990 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCCAAGAAGCCGCACGGGGACGTGAAGAAGTCCACCCAGAAGGTGCTAGACACCAAGAAGGACG
CACTGACTCGCCTCAAGCACCTGCGCATCGTCAGAGAATGCAGAATCTATTGATCTTAAACAGTTTTT
CGACCAACATTTTTACATATACTATGTGTTCTTTGAAAATTTGTGACTATTGAAGCTAGTCTTAA
CAGAAAGGTCACAAGTCTCAAAGAGAGGAATTGGATGCTATACTTTTTATTTTTGAGAAAATTTACAAC
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GATCATGTTTCGAAATCCAGTTGGGCAAAAAACGGCTCCTACCAAGGTGCTCTTCATAACGCCTCTGAAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC216040 representing NM_014990
 Red=Cloning site Green=Tags(s)

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 AILYGGPPVSGLSEPTSFMLSLSHQEKPEEPPTSNECLEITVKDGLSLQFKRFRETVPWTDIRDEEDV
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 DEPIPQKQSAFYCRLLLSILGMNSWDKRRSFHLLKKNKLLRELRLNLSRQCRETHKIAVFYVAEGQE
 DKHSILTNTGGSQAYEDFVAGLGWEVNL TNHCGFMGGLQKNKSTGLTTPYFATSTVEVIFHVSTRMPSDS
 DDSLTKKLRHLGNDEVHIVWSEHTRDYRRGIIPTEFGDVLIVYPMKNHMF SIQIMKKPEVPPFGPLFDG
 AIVNGKVLPIVVRATAINASRALKSLIPLYQNFYEERARYLQTI VQHHLEPTTFEDFAAQVFSAPYHHL
 PSDADH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

ACCN: NM_014990

ORF Size: 6108 bp

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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

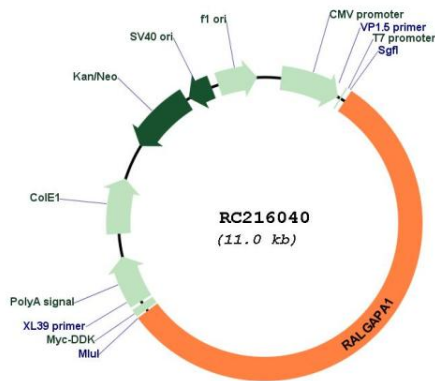
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_014990.3](#)
RefSeq Size: 7882 bp
RefSeq ORF: 6111 bp
Locus ID: 253959
UniProt ID: [Q6GYQ0](#)
Cytogenetics: 14q13.2
MW: 229.7 kDa

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]

Product images:



Circular map for RC216040