

Product datasheet for **RC240231**

GARNL1 (RALGAPA1) (NM_001283044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARNL1 (RALGAPA1) (NM_001283044) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RALGAPA1
Synonyms:	GARNL1; GRIPE; NEDHRIT; p240; RalGAPalpha1; TULIP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240231 representing NM_001283044 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGCC**

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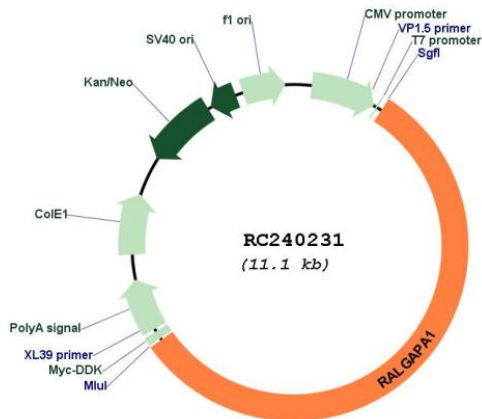
Protein Sequence: >RC240231 representing NM_001283044
 Red=Cloning site Green=Tags(s)

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 TRDYRRGIIPTEFGDVLIVIYPMKNHMF SIQIMKKPEVPFFGPLFDGAI VNGKVL PIMVRATAINASRAL
 KSLIPLYQNFYEERARYLQTI VQHHLPTTFEDFAAQVFSPAPYHHLPSDADH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001283044

ORF Size: 6249 bp

OTI Disclaimer: 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_001283044.3](#)

RefSeq Size: 6666 bp

RefSeq ORF: 6252 bp

Locus ID: 253959

UniProt ID: [Q6GYQ0](#)

Cytogenetics: 14q13.2

MW: 235.3 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]