

## Product datasheet for RC240147

### LARG (ARHGEF12) (NM\_001301084) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LARG (ARHGEF12) (NM_001301084) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGEF12
Synonyms:	LARG; PRO2792
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240147 representing NM_001301084 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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**Protein Sequence:** >RC240147 representing NM\_001301084  
Red=Cloning site Green=Tags(s)

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EMPTMEPEGGLDDSGEHFFDAREAHSDENPSEGDAVNKEEKDVNLRISGNYLILDGYDYPVESSTDEEV
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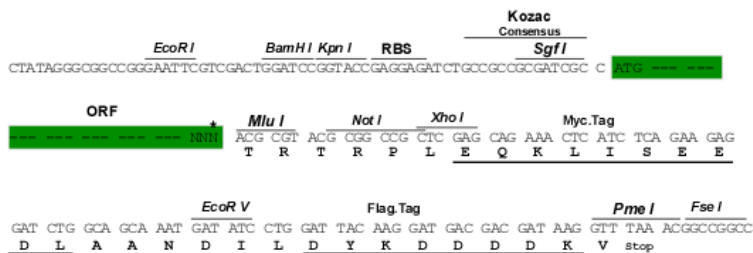
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

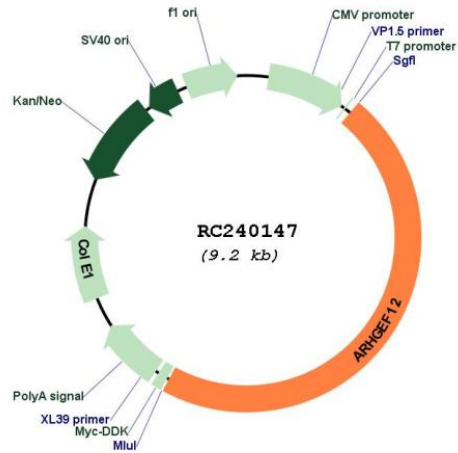
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001301084

**ORF Size:** 4323 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001301084.2</a>
<b>RefSeq Size:</b>	9655 bp
<b>RefSeq ORF:</b>	4326 bp
<b>Locus ID:</b>	23365
<b>UniProt ID:</b>	<a href="#">Q9NZN5</a>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Pathways:</b>	Axon guidance, Regulation of actin cytoskeleton, Vascular smooth muscle contraction
<b>MW:</b>	162.4 kDa
<b>Gene Summary:</b>	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli working through G protein-coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. This protein has been observed to form a myeloid/lymphoid fusion partner in acute myeloid leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]