

## Product datasheet for RC208729

### ARHGEF11 (NM\_198236) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF11 (NM_198236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGEF11
Synonyms:	GTRAP48; PDZ-RHOGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208729 representing NM_198236 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC208729 representing NM\_198236  
 Red=Cloning site Green=Tags(s)

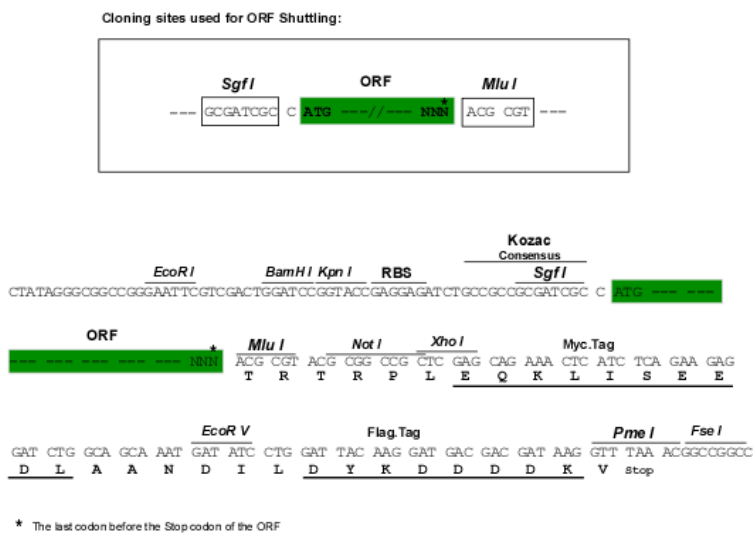
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Chromatograms: [https://cdn.origene.com/chromatograms/mg2913\\_e03.zip](https://cdn.origene.com/chromatograms/mg2913_e03.zip)

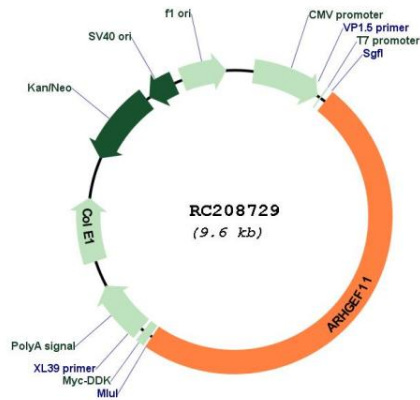
Restriction Sites: Sgfl-MluI

Cloning Scheme:

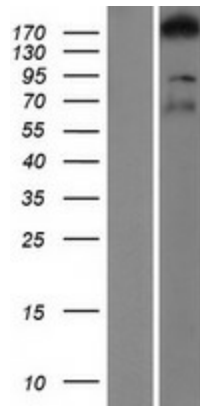


ACCN: NM\_198236

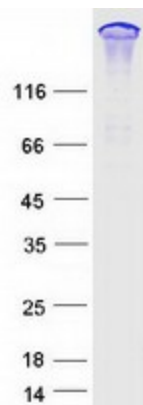
<b>ORF Size:</b>	4686 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_198236.3</a>
<b>RefSeq Size:</b>	6904 bp
<b>RefSeq ORF:</b>	4689 bp
<b>Locus ID:</b>	9826
<b>UniProt ID:</b>	<a href="#">O15085</a>
<b>Cytogenetics:</b>	1q23.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Vascular smooth muscle contraction
<b>MW:</b>	172.1 kDa
<b>Gene Summary:</b>	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. A similar protein in rat interacts with glutamate transporter EAAT4 and modulates its glutamate transport activity. Expression of the rat protein induces the reorganization of the actin cytoskeleton and its overexpression induces the formation of membrane ruffling and filopodia. Two alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RC208729



Western blot validation of overexpression lysate (Cat# [LY404959]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208729 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARHGEF11 protein (Cat# [TP308729]). The protein was produced from HEK293T cells transfected with ARHGEF11 cDNA clone (Cat# RC208729) using MegaTran 2.0 (Cat# [TT210002]).