

Product datasheet for **RC210830**

Rho GTPase activating protein 29 (ARHGAP29) (NM_004815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Rho GTPase activating protein 29
Synonyms:	PARG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210830 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC210830 protein sequence
 Red=Cloning site Green=Tags(s)

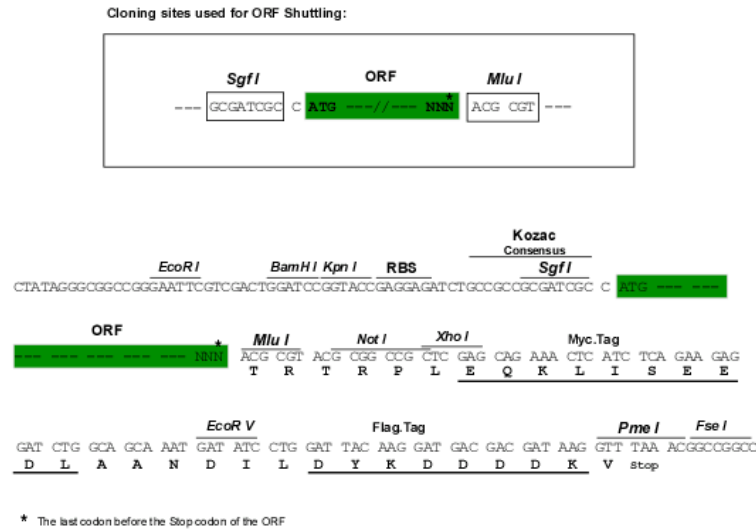
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Chromatograms: https://cdn.origene.com/chromatograms/mk6592_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

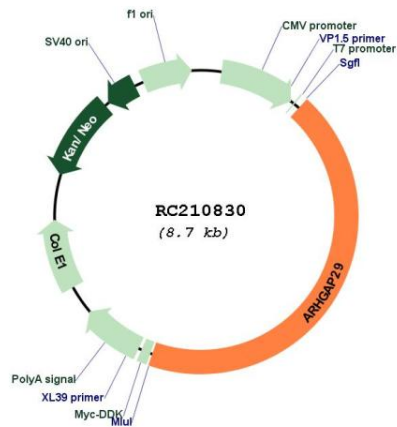


ACCN: NM_004815

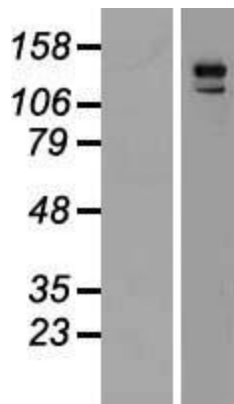
ORF Size: 3783 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004815.2 , NP_004806.2
RefSeq Size:	9121 bp
RefSeq ORF:	3786 bp
Locus ID:	9411
UniProt ID:	Q52LW3
Cytogenetics:	1p22.1
Domains:	RhoGAP, DAG_PE-bind
MW:	142.1 kDa
Gene Summary:	Rap1 is a small GTPase that, through effectors, regulates Rho GTPase signaling. These effectors- Rasip1, Radil, and the protein encoded by this gene- translocate to the cell membrane, where they form a multiprotein complex. This complex is necessary for Rap1-induced inhibition of Rho signaling. Defects in this gene may be a cause of nonsyndromic cleft lip with or without cleft palate. [provided by RefSeq, Jun 2016]

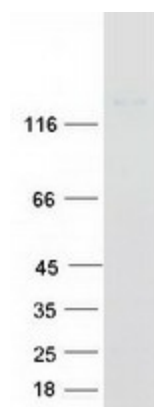
Product images:



Circular map for RC210830



Western blot validation of overexpression lysate (Cat# [LY417731]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210830 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARHGAP29 protein (Cat# [TP310830]). The protein was produced from HEK293T cells transfected with ARHGAP29 cDNA clone (Cat# RC210830) using MegaTran 2.0 (Cat# [TT210002]).