OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC210830

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Rho GTPase activating protein 29 (ARHGAP29) (NM_004815) Human Tagged ORF Clone
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) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATTGCTCACAAACAGAAAAAGACAAAGAAAAAACGTGCTTGGGCATCAGGTCAACTCTCTACTGATA TTACAACTTCTGAAATGGGGCTCAAGTCCTTAAGTTCCAACTCTATTTTTGATCCGGATTACATCAAGGA GTTGGTGAATGATATCAGGAAGTTCTCCCACATGTTACTATATTTGAAAGAAGCCATATTTTCAGACTGT TTTAAAGAAGTTATTCATATACGTCTAGAGGAACTGCTCCGTGTTTTAAAGTCTATAATGAATAAACATC AGAACCTCAATTCTGTTGATCTTCAAAATGCTGCAGAAATGCTCACTGCAAAAGTGAAAGCTGTGAACTT CACAGAAGTTAATGAAGAAAACAAAAACGATCTCTTCCAGGAAGTGTTTTCTTCTATTGAAACTTTGGCA TTTACCTTTGGAAATATCCTTACAAACTTCCTTATGGGAGATGTAGGCAATGATTCATTATTGCGACTGC CTGTTTCTCGAGAAACTAAGTCGTTTGAAAATGTTTCTGTGGAATCAGTGGACTCATCCAGTGAAAAAGG AAATTTTTCCCCTTTAGAACTAGACAACGTGCTGTTAAAGAACACTGACTCTATCGAGCTGGCTTTGTCA TATGCTAAAACTTGGTCAAAATATACTAAGAACATAGTTTCATGGGTTGAAAAAAAGCTTAACTTGGAAT TGGAGTCCACTAGAAATATGGTCAAGTTGGCAGAGGCAACTAGAACTAACATTGGAATTCAGGAGTTCAT GCCACTGCAGTCTCTGTTTACTAATGCTCTTCTTAATGATATAGAAAGCAGTCACCTTTTACAACAAACA ATTGCAGCTCTCCAGGCTAACAAATTTGTGCAGCCTCTACTTGGAAGGAAAAATGAAATGGAAAAACAAA GGAAAGAAATAAAAGAGCTTTGGAAACAGGAGCAAAATAAAATGCTTGAAGCAGAGAATGCTCTCAAAAA GGCAAAATTATTATGCATGCAACGTCAAGATGAATATGAGAAAGCAAAGTCTTCCATGTTTCGTGCAGAA GAGGAGCATCTGTCTTCAAGTGGCGGATTAGCAAAAAATCTCAACAAGCAACTAGAAAAAAAGCGAAGGT TGGAAGAGGAGGCTCTCCAAAAAGTAGAAGAAGCAAATGAACTTTACAAAGTTTGTGTGACAAATGTTGA AGAAAGAAGAAATGATCTAGAAAATACCAAAAGAGAAATTTTAGCACAACTCCGGACACTTGTTTTCCAG TGTGATCTTACCCTTAAAGCTGTAACAGTTAACCTCTTCCACATGCAGCATCTGCAGGCTGCTTCCCTTG CAGACAGTTTACAGTCTCTCTGTGATAGTGCCAAACTCTATGACCCAGGCCAAGAGTACAGTGAATTTGT CAAGGCCACAAATTCAACTGAAGAAGAAAAAGTTGATGGAAATGTAAATAAACATTTAAATAGTTCCCAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

CCTTCAGGATTTGGACCTGCCAACTCTTTAGAGGATGTTGTACGCCTTCCTGACAGTTCTAATAAAATTG
AAGAGGACAGATGCTCTAACAGTGCAGATATAACAGGTCCTTCCTTTATAAGATCATGGACATTTGGGAT
GTTTAGTGATTCTGAGAGCACTGGAGGGAGCAGCGAATCTAGATCTCTGGATTCAGAATCTATAAGTCCA
GGAGACTTTCATCGAAAACTTCCACGAACACCATCCAGTGGAACTATGTCCTCTGCAGATGATCTAGATG
AAAGAGAGCCACCTTCCCCTTCAGAAACTGGACCCAATTCCCTTGGAACATTTAAGAAAACATTGATGTC
AAAGGCAGCTCTCACACACAAGTTTCGCAAATTGAGATCCCCCACGAAATGTAGGGATTGTGAAGGCATT
GTAGTGTTCCAAGGTGTTGAATGTGAAGAGTGTCTCCTTGTTTGTCATCGAAAGTGTTTGGAAAATTTAG
TCATTATTTGTGGTCATCAGAAACTTCCAGGAAAAATACACTTATTTGGAGCAGAATTCACACAAGTTGC
AAAAAAGGAACCAGATGGTATCCCTTTTATACTCAAAATATGTGCCTCAGAGATTGAAAATAGAGCTTTG
TGTCTACAGGGAATTTATCGTGTGTGTGGAAACAAAATAAAAACTGAAAAATTGTGTCAAGCTTTGGAAA
ATGGAATGCACTTGGTAGATATTTCAGAATTTAGTTCACATGATATCTGTGACGTCTTGAAATTATACCT
TCGGCAGCTCCCAGAACCATTTATTTTATTTCGATTGTACAAGGAATTTATAGACCTTGCAAAAGAGATC
CAACATGTAAATGAAGAACAAGAGACAAAAAAGAATAGTCTTGAAGACAAAAAATGGCCAAATATGTGTA
TAGAAATAAACCGAATTCTTCTAAAAAGCAAAGACCTTCTAAGACAATTGCCAGCATCAAATTTTAACAG
TCTTCATTTCCTTATAGTACATCTAAAGCGGGTAGTAGATCATGCAGAAGAAAACAAGATGAACTCCAAA
AACTTGGGGGTGATATTTGGACCAAGTCTCATTAGGCCAAGGCCCACAACTGCTCCTATCACCATCTCCT
CCCTTGCAGAGTATTCAAATCAAGCACGCTTGGTAGAGTTTCTCATTACTTACTCACAGAAGATCTTCGA
TGGGTCCCTACAACCACAAGATGTTATGTGTAGCATAGGTGTTGTTGATCAAGGCTGTTTTCCAAAGCCT
CTGTTATCACCAGAAGAAAGAGACATTGAACGTTCCATGAAGTCACTATTTTTTTCTTCAAAGGAAGATA
TCCATACTTCAGAGAGTGAAAGCAAAATTTTTGAACGAGCTACATCATTTGAGGAATCAGAACGCAAGCA
AAATGCGTTAGGAAAATGTGATGCATGTCTCAGTGACAAAGCACAGTTGCTTCTAGACCAAGAGGCTGAA
TCAGCATCCCAAAAGATAGAAGATGGTAAAACCCCTAAGCCACTTTCTCTGAAATCTGATAGGTCAACAA
ACAATGTGGAGAGGCATACTCCAAGGACCAAGATTAGACCTGTAAGTTTGCCTGTAGATAGACTACTTCT
TGCAAGTCCTCCTAATGAGAGAAATGGCAGAAATATGGGAAATGTAAATTTAGACAAGTTTTGCAAGAAT
CCTGCCTTTGAAGGAGTTAATAGAAAAGACGCTGCTACTACTGTTTGTTCCAAATTTAATGGCTTTGACC
AGCAAACTCTACAGAAAATTCAGGACAAACAGTATGAACAAAACAGCCTAACTGCCAAGACTACAATGAT
CATGCCCAGTGCACTCCAGGAAAAAGGAGTGACAACAAGCCTCCAGATTAGTGGGGACCATTCTATCAAT
GCCACTCAACCCAGTAAGCCATATGCAGAGCCAGTCAGGTCAGTGAGAGAGGCATCTGAGAGACGGTCTT
CAGATTCCTACCCTCTCGCTCCTGTCAGAGCACCCAGAACACTGCAGCCTCAACATTGGACAACATTTTA
TAAACCACATGCTCCCATCATCAGTATCAGGGGGAATGAGGAGAAGCCAGCTTCACCCTCAGCAGCAGTG
CCTCCTGGCACAGATCACGATCCCCACGGTCTCGTGGTGAAGTCAATGCCAGACCCAGACAAAGCATCAG
CTTGTCCTGGGCAAGCAACTGGTCAACCTAAAGAAGACTCTGAGGAGCTTGGCTTGCCTGATGTGAATCC
AATGTGTCAGAGACCAAGGCTAAAACGAATGCAACAGTTTGAAGACCTCGAAGATGAAATTCCACAATTT
GTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

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

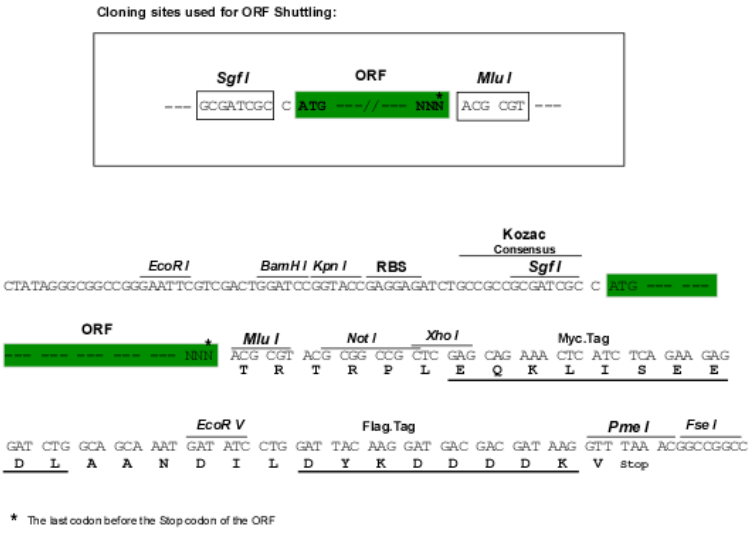
MIAHKQKKTKKKRAWASGQLSTDITTSEMGLKSLSSNSIFDPDYIKELVNDIRKFSHMLLYLKEAIFSDC
FKEVIHIRLEELLRVLKSIMNKHQNLNSVDLQNAAEMLTAKVKAVNFTEVNEENKNDLFQEVFSSIETLA
FTFGNILTNFLMGDVGNDSLLRLPVSRETKSFENVSVESVDSSSEKGNFSPLELDNVLLKNTDSIELALS
YAKTWSKYTKNIVSWVEKKLNLELESTRNMVKLAEATRTNIGIQEFMPLQSLFTNALLNDIESSHLLQQT
IAALQANKFVQPLLGRKNEMEKQRKEIKELWKQEQNKMLEAENALKKAKLLCMQRQDEYEKAKSSMFRAE
EEHLSSSGGLAKNLNKQLEKKRRLEEEALQKVEEANELYKVCVTNVEERRNDLENTKREILAQLRTLVFQ
CDLTLKAVTVNLFHMQHLQAASLADSLQSLCDSAKLYDPGQEYSEFVKATNSTEEEKVDGNVNKHLNSSQ
PSGFGPANSLEDVVRLPDSSNKIEEDRCSNSADITGPSFIRSWTFGMFSDSESTGGSSESRSLDSESISP
GDFHRKLPRTPSSGTMSSADDLDEREPPSPSETGPNSLGTFKKTLMSKAALTHKFRKLRSPTKCRDCEGI
VVFQGVECEECLLVCHRKCLENLVIICGHQKLPGKIHLFGAEFTQVAKKEPDGIPFILKICASEIENRAL
CLQGIYRVCGNKIKTEKLCQALENGMHLVDISEFSSHDICDVLKLYLRQLPEPFILFRLYKEFIDLAKEI
QHVNEEQETKKNSLEDKKWPNMCIEINRILLKSKDLLRQLPASNFNSLHFLIVHLKRVVDHAEENKMNSK
NLGVIFGPSLIRPRPTTAPITISSLAEYSNQARLVEFLITYSQKIFDGSLQPQDVMCSIGVVDQGCFPKP
LLSPEERDIERSMKSLFFSSKEDIHTSESESKIFERATSFEESERKQNALGKCDACLSDKAQLLLDQEAE
SASQKIEDGKTPKPLSLKSDRSTNNVERHTPRTKIRPVSLPVDRLLLASPPNERNGRNMGNVNLDKFCKN
PAFEGVNRKDAATTVCSKFNGFDQQTLQKIQDKQYEQNSLTAKTTMIMPSALQEKGVTTSLQISGDHSIN
ATQPSKPYAEPVRSVREASERRSSDSYPLAPVRAPRTLQPQHWTTFYKPHAPIISIRGNEEKPASPSAAV
PPGTDHDPHGLVVKSMPDPDKASACPGQATGQPKEDSEELGLPDVNPMCQRPRLKRMQQFEDLEDEIPQF
V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004815

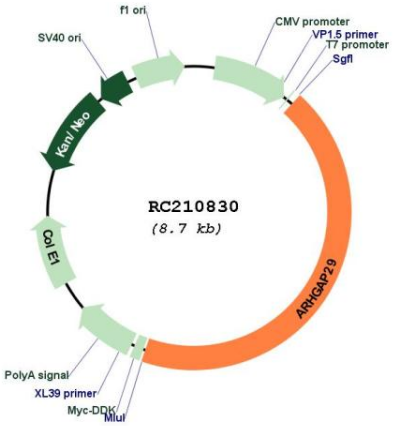
ORF Size: 3783 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

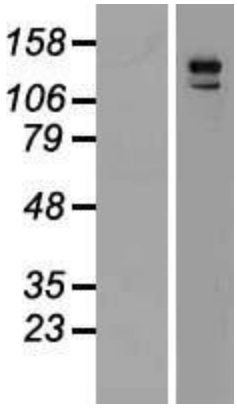
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:

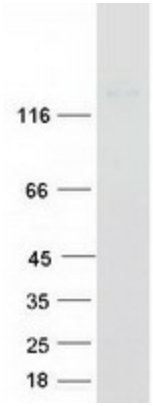


Circular map for RC210830



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

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



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]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US