

Product datasheet for SC117122

Rho GTPase activating protein 29 (ARHGAP29) (NM_004815) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rho GTPase activating protein 29 (ARHGAP29) (NM_004815) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rho GTPase activating protein 29
Synonyms:	PARG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004815 edited

```

ATGATTGCTCACAACAGAAAAAGACAAAGAAAAACGTGCTTGGGCATCAGGTCAACTC
TCTACTGATATTACAACCTCTGAAATGGGGCTCAAGTCCTTAAGTTCCAACCTATTTTT
GATCCGGATTACATCAAGGAGTTGGTGAATGATATCAGGAAGTTCTCCCATGTTACTA
TATTTGAAAGAAGCCATATTTTCAGACTGTTTTAAAGAAGTTATTCATATACGTCTAGAG
GAACTGCTCCGTGTTTTAAAGTCTATAATGAATAAACATCAGAACCTCAATTCTGTTGAT
CTTCAAAATGCTGCAGAAATGCTCACTGCAAAAGTGAAAGCTGTGAACTTCACAGAAGTT
AATGAAGAAAACAAAACGATCTCTCCAGGAAGTGTCTTCTATTGAACTTTGGCA
TTTACCTTTGGAAATATCCTTACAACTTCCTTATGGGAGATGTAGGCAATGATTCATTA
TTGCGACTGCCTGTTTCTCGAGAACTAAGTCGTTTGAAATGTTTCTGTGGAATCAGTG
GACTCATCCAGTAAAAAGGAAATTTTTCCCTTTAGAACTAGACAACGTGCTGTTAAAG
AACACTGACTCTATCGAGCTGGCTTTGTCATATGCTAAACTTGGTCAAAATATACTAAG
AACATAGTTTCATGGGTTGAAAAAAGCTTAACCTTGAATTGGAGTCCACTAGAAATATG
GTCAAGTTGGCAGAGGCAACTAGAACTAACATTGGAATTCAGGAGTTCATGCCACTGCAG
TCTCTGTTTACTAATGCTCTTCTTAATGATATAGAAAGCAGTCACCTTTTACAACAAACA
ATTGCAGCTCTCCAGGCTAACAAATTTGTGCAGCCTCTACTTGGAAGGAAAAATGAAATG
GAAAAACAAAGGAAAGAAATAAAAGAGCTTTGGAACAGGAGCAAAATAAAATGCTTGAA
GCAGAGAATGCTCTCAAAAGGCAAAATATTATGTCATGCAACGTCAAGATGAATATGAG
AAAGCAAAGTCTTCCATGTTTCGTGCAGAAGAGGAGCATCTGTCTCAAGTGGCGGATTA
GCAAAAAATCTCAACAAGCAACTAGAAAAAGCGAAGGTTGGAAGAGGAGGCTCTCCAAA
AAGTAGAAGAAGCAAAATGAACCTTTACAAAGTTTGTGTGACAAATGTTGAAGAAAGAAGAA
ATGATCTAGAAAAATACAAAAGAGAAATTTAGCACAACTCCGGACACTGTTTTCCAGT
GTGATCTTACCCTTAAAGCTGTAAACAGTTAACCTCTTCCACATGCAGCATCTGCAGGCTG
CTTCCCTTGACAGACAGTTTACAGTCTCTCTGTGATAGTGCCAACTCTATGACCCAGGCC
AAGAGTACAGTGAATTTGTCAAGGCCACAAATCAACTGAAGAAGAAAAAGTTGATGGAA
ATGTAAATAAACATTTAAATAGTTCCCAACCTTCAGGATTTGGACCTGCCAACTCTTTAG
AGGATGTTGTACGCCTTCTGACAGTTCTAATAAAATTGAAGAGGACAGATGCTCTAACA

```



[View online »](#)

GTGCAGATATAACAGGTCCTTCCTTTATAAGATCATGGACATTTGGGATGTTTAGTGATT
 CTGAGAGCACTGGAGGGAGCAGCGAATCTAGATCTCTGGATTGAGAATCTATAAGTCCAG
 GAGACTTTTCATCGAAAACCTTCCACGAACACCATCCAGTGGAACTATGTCCTCTGCAGATG
 ATCTAGATGAAAGAGAGCCACCTTCCCCTTCAGAACTGGACCAATTCCCTTGGAACAT
 TTAAGAAAACATTGATGTCAAAGGCAGCTCTCACACACAAGTTTCGCAAATTGAGATCCC
 CCACGAAATGTAGGGATTGTGAAGGCATTGTAGTGTTCCAAGGTGTTGAATGTGAAGAGT
 GTCTCCTTGTTTGTTCATCGAAAGTGTGTTGGAAAATTTAGTCATTATTTGTGGTCATCAGA
 AACTTCCAGGAAAAATACACTTATTTGGAGCAGAATTCACACAAGTTGCAAAAAAGGAAC
 CAGATGGTATCCCTTTTATACTCAAATATGTGCCTCAGAGATTGAAAAATAGAGCTTTGT
 GTCTACAGGGAATTTATCGTGTGTGTGGAAACAAAATAAAAACTGAAAAATTGTGTCAAG
 CTTTGGAATAATGGAATGCACTTGGTAGATATTTGAGAATTTAGTTCACATGATATCTGTG
 ACGTCTTGAAATTATACCTTCGGCAGCTCCCAGAACCATTTATTTTATTTTCGATTGTACA
 AGGAATTTATAGACCTTGCAAAAGAGATCCAACATGTAATGAAGAACAAGAGACAAAAA
 AGAATAGTCTTGAAAGACAAAAAATGGCCAAATATGTGTATAGAAATAAACCGAATTCCTC
 TAAAAAGCAAAGACCTTCTAAGACAATTGCCAGCATCAAATTTTAAACAGTCTTCATTTCC
 TTATAGTACATCTAAAGCGGGTAGTAGATCATGCAGAAGAAAAACAAGATGAACCTCAAAA
 ACTTGGGGGTGATATTTGGACCAAGTCTCATTAGGCCAAGGCCCACTGCTCTCTATCA
 CCATCTCCTCCCTTGAGAGTATTCAAATCAAGCACGCTTGGTAGAGTTTCTCATTACTT
 ACTCACAGAAGATCTTCGATGGGTCCCTACAACCACAAGATGTTATGTGTAGCATAGGTG
 TTGTTGATCAAGGCTGTTTTCCAAAGCCTCTGTTATCACCAGAAGAAAGAGACATTGAAC
 GTTCCATGAAGTCACTATTTTTTCTTCAAAGGAAGATATCCATACTTCAGAGAGTGAAA
 GCAAAATTTTTGAACGAGCTACATCATTTGAGGAATCAGAACGCAAGCAAAATGCGTTAG
 GAAAATGTGATGCATGTCTCAGTGACAAAGCACAGTTGCTTCTAGACCAAGAGGCTGAAT
 CAGCATCCCAAAAGATAGAAGATGGTAAAACCCCTAAGCCACTTTCTCTGAAATCTGATA
 GGTCAACAAACAATGTGGAGAGGCATACTCCAAGGACCAAGATTAGACCTGTAAGTTTGC
 CTGTAGATAGACTACTTCTGCAAGTCCTCCTAATGAGAGAAATGGCAGAAATATGGGAA
 ATGTAAATTTAGACAAGTTTGTGCAAGAATCCTGCCTTTGAAGGAGTTAATAGAAAAGACG
 CTGCTACTACTGTTTGTCCAAATTTAATGGCTTTGACCAGCAAACTCTACAGAAAATTC
 AGGACAAACAGTATGAACAAAACAGCCTAACTGCCAAGACTACAATGATCATGCCCAGTG
 CACTCCAGGAAAAAGGAGTGACAACAAGCCTCCAGATTAGTGGGGACCATTCTATCAATG
 CCACTCAACCCAGTAAGCCATATGCAGAGCCAGTCAGGTCAGTGAGAGAGGCATCTGAGA
 GACGGTCTTCAGATTCTACCCTCTCGCTCCTGTGAGAGCACCCAGAACACTGCAGCCTC
 AACATTGGACAACATTTTATAAACACATGCTCCCATCATCAGTATCAGGGGGAATGAGG
 AGAAGCCAGCTTCACCCTCAGCAGCAGTGCCTCCTGGCACAGATCACGATCCCCACGGTC
 TCGTGGTGAAGTCAATGCCAGACCCAGACAAAGCATCAGCTTGTCTGGGCAAGCAACTG
 GTCAACCTAAAGAAGACTCTGAGGAGCTTGGCTTGCTGATGTGAATCCAATGTGTCAGA
 GACCAAGGCTAAAACGAATGCAACAGTTTGAAGACCTCGAAGATGAAATCCACAATTTG
 TGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004815 unedited
 GTAAAGTTCAAAATTTGTAAACGACTCACTATAGGGCGGCCGCAATTTCGCACGAGGCTG
 CGGCTGCGGCTGCGGCTGAGATTGGCCGGGCGTCCGCAGGCCGTGGGGATGGGGCAGC
 GAGCTCCAGCCCTCGGCGGTGGCGGCGGCCGTAGGTGTGGGGCGGGCGTCCGCGTCCGGC
 ACGCGAGATGGAGCGCCGTGGATTTTCAGTTTTCTGACTGTTACATGAAAGGATGATTGC
 TCACAAACAGAAAAAGACAAAGAAAAACGTGCTTGGGCATCAGGTCAACTCTCTACTGA
 TATTACAACCTTCTGAAATGGGGCTCAAGTCCTTAAGTTCCAACCTATTTTTGATCCGGA
 TTACATCAAGGAGTTGGTGAATGATATCAGGAAGTTCTCCACATGTTACTATATTGAA
 AGAAGCCATATTTTCAGACTGTTTTAAAGAAGTTATTCATATACGTCTAGAGGAAGTCT
 CCGTGTTTTAAAGTCTATAATGAATAAACATCAGAACCTCAATTCTGTTGATCTTCAAAA
 TGCTGCAGAAATGCTCACTGCAAAAGTGAAGCTGTGAACCTCAGAGAAATGAAGA
 AAACAAAACGATCTCTCCAGGAAGTGTCTTCTATTGAACTTTGGCATTACCTT
 TGGAAATATCCTTACAACTTCTTATGGGAGATGTAGGCAATGATTCATTATTGCGAC
 TGCTGTCTTCGAGAACTAAGTCGTTTAAAAATGTTTCTGTGGAATCAGTGGACTCATC
 CAGTGAAAAAGGAATTTTCCCCTTTAGAACTAGACAACGTGCTGTTAAGAACACTGAC
 TCTATCGAGCTGGCTTTGTCATATGCTAAACTTGGTCAAAATATACTAAGAACATAGTT
 TCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004815 unedited
 TTAAGTGAACGCGCCGCAATCTANGATCGATTTTTTTTTTTTTTTTTTTAGGCACTTG
 CATTTCAGAAACATTCTTTTATAAATAAGCACTTATAACAGTTCCACTCCAAAAATAAA
 CCTGATTTTCCCAATTCACCTATTAGTTGAGACTATATCATATATTAGGGATGCATTC
 AAATGGACCATTTGGTGGGAAAGTCAACTGAACCTTAAAAAATACGAATCCACCTATCT
 TATTACAACCTTAAAAATACAGAAATTTAAAGATAATTCAGTGAGGCACAAATGTGACC
 CTATCAAAACATTCTACCATTCATTTACCAACAGAGGATAAATACAACAACGAAAGGC
 CAAACCATGATTTGGCGGCCCTATTGAGTGGGGCCCTGCCCAACTTTTTTGGCGGGG
 GAGCCTTTTGTCCCTTCGCGTCAAGGACGCGTGTGTCAGAGTATTAGGACGG
 GAGCCGGTTCGCCCTCCGCGCGTCCGCGCCGGCTCTCGATTCTGTCGCCCTTTCCAT
 ACGTAATCCAGTGGTTCTTTCGGTGCCCGTGCGCACGGCCCGCCGCTATCCGAGCGAGAA
 GGGTCCCGACCGTAACCTCCCGGTGCCAGGTTATTCTCCGCTGTGGGTGACCGACCGT
 CAGTAGTGTCACTTCATCTTCCGGTTGATCTCCGTGCATACCGCGTATATTACCGCG
 TGGCGCTTAGCCTCCCGGCGCGCTCCCCCGCTTCTCAGTCCGACCCCTCGGCTTCC
 CCCCCTTCGCGCCGCTCCGCGCCCTGTCTCCGCGCCTTACTTCTACTGACTTTTCT
 GTGTCGTCGCTCCCTCACAACCGCCCTCGCATCTCACGTCCCGCTTTCATTTCTCCCC
 TAATTTCCCGGCTTCACCTCGTCGTCAATCGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_004815

Insert Size:

4350 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_004815.2, NP_004806.2</u>
RefSeq Size:	5585 bp
RefSeq ORF:	3786 bp
Locus ID:	9411
UniProt ID:	<u>Q52LW3</u>
Cytogenetics:	1p22.1
Domains:	RhoGAP, DAG_PE-bind
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.