

Product datasheet for **RR214785**

Arhgap27 (NM_198759) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap27 (NM_198759) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap27
Synonyms:	Arhgap15; CAMGAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214785 representing NM_198759
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGACGTCGAGGGGGACGTGTACGTGCTGGTGGAGCACCCCTTCGAGTACACCGCAAGACG
 GCGCCTTATCGCCATCCAACCCAATGAGCGTTGCCGACTGCTGCGCCGAGCACCGAGCACTGGTGGCA
 CGTGCGGGGAGCCTGGGGTTCGCCCTTCTACCTCCCGGCTCAGTACGTACCGGAGCTGCCGGCGCTC
 GGTGACCTGTCCCGGCCCGCAGCCTTCCGTAACAGCAGCGCCACAGTCCCGGAGCCTCTGGCCT
 ACGACTACCGCTTCGTGAGCACCCCGTGGTGGCGATGGGTCTTCTGCCGAGCCCGGGCCGTGCCAG
 CTCCTGTGTGGCCTGCACGACAACGCACCAAGTGGCCAGCGCAACAGCCTGGCTCCGGGAGGGCCCGC
 TGCCTGTACTGCGGCCCGCAGCGCCGGTGCAGCCGCGCAGTCCCTGGATGACTTGGCGCGGGCGGCA
 CCGCGCCCTGCCGGCCTCTCGGCAGCGGGCCACTTCAAGGCCCTCCAGCGTGGCGGGCTCTGGGT
 TTGTCGCCGGCCCTGGCGCGTAGCGACTCGGAGAATGTCTACGAGGCTATCCCGGACTTGCCTGTCT
 CCGCGGGCGAAGAGCCAAAACAGGTAGACGAGCCACCGAACCAGTGTATGCCAACGTAGAGAGGCAAC
 CTCAGGTACGTCGCGCGCTCTGCTGCAGTCTCTCGGCTCAGCCCGGTGTGGGAGACGCACACAGA
 TGCGGGCACTGGGCGCCCTACTACTACAACCCGACACGGGCGTGACCACCTGGGAGTCAACCTTTGAA
 GCACCTGAAGGCGCCACAGCCGACTACCTCCCGGGCCTCTGTGGGAGCGGGAGAGCCTGGAGACAG
 AGTGGGGCCAGTACTGGGATGAGGAGAGCGCAGGGTGTCTTCTACAACCCCTTGACGGGTGAGACGGT
 CTGGGAGGACGAGACTGAGGAGCTGGAGACGATCCCAGGAACAACGGAGATGCAACCCAGCCTGAGC
 CCGCGAAGCCCGGGCAGCAGAGGCCCGACTCTGAAACAGACTACCTGAATTACTGACCAGTTATC
 CTGAAGAGGACTATTCTCTGTGGGCTCCTTCAAGTGTCTCGGCCAATTCTCCCTTGGTGCACCCCC
 TGGCTGGTCTGTCAAATTAACCCAGAGAAGCAGATGCTCTACACCAACCAGTTCACTCAAGAGCAGTGG
 GTAAGGTTGGAGGACCAGGAAGGAAGCCATATTTCTACAATCCAGAGGACTCCTCTGTTAGTGGGAAC
 TGCCCCAGGTCCCGGTCCTGCCCTCGGAGTGGTGTAAATCCAGCCAGGATAGTGATACTCCAGCCCA
 GGCTAGCCCTCCAGAGGAGAAGATCAAGACCCTGGACAAGGAGGAGTGTCCATCGAACCAAGACAGTA
 GACAAGGGGAAGAGACTTCGGAAGAACTGGAATGCTTCTGGACCGTGTGGAGGGCGGTGTCTGA
 CCTTCTCAAGGATTCAAAGACCTCAGTGAAGCGCCCTGAGGCAGCCTTCAAACCTCTCCACCCCTGA
 ATATACAGTCAACTGAGGGGGCCTCGCTCTCGTGGGCCCAAGACAATCCAGCAAGAAGAATGTG
 CTAGAGCTCCGGAGCCGAGATGGCTCAGAGTACCTGATCCAGCATGACTCAGAGGCCATCATCAGCACCT
 GGCACAAGGCCATTGCCGAAGGCATCGAGGAGCTGTGTCAGACCTGCCCAAAGGGAGGAAGGTGAACC
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 TCCTACAGAGACGACCCACTCTGCAGTCTTTCGGGAGAAAGGGTACATCAAAGACCAGGTGTTGGATG
 TGCACTGGCTCAACTGTGCGAGCGCAGAGGAGCCCTGTGCCACGCTTCGTGCAGCAATGCATCCGCACC
 GTCGAGGCCCGGGGGCTGGATATTGATGGGCTGTACCGCATCAGTGGGAACCTGGCCACCATCCAGAAGC
 TGCGCTATAAGGTGGATCAGATGAACGCTTGGACCTGGACGATGGGCGCTGGGAAGACGTCACCGTGT
 CACAGGTGCCCTGAAGCTCTTCTCCGAGAGCTGCCGGAACCCCTTCCCTTCTCGCACTTCCACCAG
 TTCATAGCAGCCATCAAGCTGCAAGACCCGCGCCAGCGCAGCCGCTGTGTGCGTGACCTGGTGCATACGC
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 GAAGCCAGCATGCCATGACCATGGTGTCCAGAACCAGGTGGTAGAGCTCATCTACATCAGTGCAGCAG
 ACATCTTCCACCGCAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214785 representing NM_198759
Red=Cloning site Green=Tags(s)

MAADVEGDVYVLVEHPFEYTGKDGRLIAIQPNERCRLRRSTEHWVHVRREPGRPFYLPQYVRELPA
 GDPVPAQPSPVLQQRPTVPEPLAYDYRFVSTPVGADGSSAEPGRASSLCGPARQRTSGQRNSLAPGGPA
 CLYL RPAAPV RPAQSLDDLARGGTAPPAGLLGSAGHFKASSVAGSWVCPRLARSDSENVYEAIPDLRCP
 PRAKSPKQVDEPPEPVYANVERQPQVTSRPSAAAPPRLSPVWETHDAGTGRPYYPNDTGVTTWESPFE
 APEGATSP TTSRASVSGESLETEWQYWDEESGRVFFYNPLTGETVWEDETEELEDDPEEQLEMQPSLS
 PRSPGQQRPTPETDYPELLTSYPEEDYSPVGSFSDLGPTSPLVAPPGWSCQITPEKQMLYTNQFTQEQW
 VRLEDQEGKPYFYNPEDSSVQWELPQVPVPAPRSGRKSSQSDTPAQASPPEEKIKTLDKAGVLHRTKTV
 DKGKRLRKKHWNASWTVLEGGVLTFFKDSKTSAAAGLRQPSKLSLTP EYTVELRGASL SWAPKDKSSKKNV
 LELRSRDGSEYL IQHDSEAIISTWHKAI AEGIEEL SADLPQREEGEPSSADFGSSERLGSWKEEDVRPNA
 ASPSLNPGSQESDL SRVRHKL RKF LQRRPTLQSLREKGYIKDQVFGCALAQL CERERSPVPRFVQCIRT
 VEARGLDIDGLYRISGNLATIOQLRYKVDHDERLDLDDGRWEDVHVITGALKLFFRELPELFPF SHFHQ
 FIAAIKLDQPAQRSRCVRDLVRTLPAPNHDTLRLLIQHL CRVIEHGEQNRMSVQNV AIVFGPTLLRPEME
 EASMPMTVMVFQNVVELILHQCADIFPPH

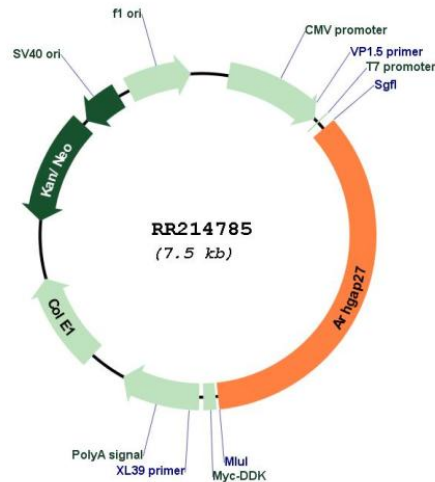
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_198759

ORF Size: 2607 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.

RefSeq: [NM_198759.1](#), [NP_942054.1](#)

RefSeq Size: 2610 bp

RefSeq ORF: 2610 bp

Locus ID: 303583

UniProt ID: [Q6TLK4](#)

Cytogenetics: 10q32.1

MW: 97.2 kDa

Gene Summary: has GTPase activator activity toward Rac1 and Cdc42; plays a role in receptor mediated endocytosis [RGD, Feb 2006]