

Product datasheet for **MR231292**

Arhgap27 (NM_001205236) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap27 (NM_001205236) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap27
Synonyms:	2310069I04Rik; 5730442P18Rik; Gm21552; Sh3d20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR231292 representing NM_001205236
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGACGTGCGAGGGGACGTGTACGTGCTGGTGGAAACCCCTTCGAGTACACCGCAAGACG
 GGCGCCGATCGCCATCCAACCGAACGAGCGTTACCGACTGCTGCGCCGAGCACCAGCACTGGTGGCA
 CGTGGCGGGAGCCCGGGGTCGCCCTTCTACCTCCCGCGCAGTACGTACCGGAGCTGCCCGCGCTC
 GGCGACCTGCCCGGCCCGCAGCCTTCCGTACCGCAGCAGCGCCCGCAGTCCCGGAACCTCTGGCT
 ACGACTACCGCTTCGTGAGCACCCCGTGGGCGCCGATGGGTCTCTGCCGAGCCCGGGGCCGCGCCAG
 CTCCTGTGTGGCCCTGCACGACAGCGCACCGGTGGCCAGCGCAACAGCCTGGCTCCGGGAGGGCCCGC
 TGCCTTACGTGCGGCCCGCGCCCTGTGCGACCGCGCAGTCCCTGGATGACTGGCGCGCGCGGTA
 CCGCGCCCTGCCGCCCTCTCGCAGCGCGGCCACTTCAAGGCCCTCAGCGTGGCGGGCTCTGGGT
 TTGTCGCCCGCCCTGGCGCTAGCGACTCGGAGAATGTCTACGAGGCCATTCCGGACTTGCCTGCCCT
 CCGCGGGCAGAGAGCCAAAGCAGGTGGACGACCCCGGAACAGTGTATGCCAATGTAGAGAGGCAAC
 CTCGGGCCACGTGCGCTCGCTCAGCTGCAGTCTCTCGGCTCAGCCAGTGTGGGAGACACACAGA
 CACGGGCACTGGGCGCCCTACTACTACAACCCGACAGGGCGTGACCACCTGGGAGTCAACCTTTGAA
 ACACCTGAAGGCACCACAGCCCGGCCACTCCCGGGCTCTGTGGTAGCGGGAGAGCCTGGAGACAG
 AGTGGGGCCAGTACTGGGATGAGGAGAGCCGAGGGTCTTCTTACAACCCCTTGACCGGTGAGACGGC
 CTGGGAGGACGAGACCGAGGAGCTGGAGGAAGTACCAGGAACAACGGAAATGCAACCCAGCCTGAGC
 CCGGAAGCCCGGGCAGCAGAGGCCCAACTCTGAAACAGACTACCCGAATTACTGGCCAGTTACC
 TGAAGAGGACTACTCTCTGTGGCTCCTTCAAGTGTGATCGGGCCCGCTTCTCTTTGGTGCACCC
 TGGCTGGTCTGTCAAATTACCCAGACAAACAGATGCTCTACACCAACAGTCACTCAAGAGCAGTGG
 GTAAGGTTGGAGGACAGCACGGGAAGCCATATTTCTACAACCCAGAGGACTCCTCTGTTAGTGGGAGC
 TACCCAGGTCCCGATCCCTGCCCGGAAGTGTCCGCAATCCAGCCAGGATAGCGACTCCAGCCCA
 GGCTAGCCCTCCAGAGGAGAAGTCAAGACTCTGGACAAGGAGGAGTCTCCATCGTACCAAGACGGTA
 GACAAGGGGAAGAGACTTCGGAAGAACTGGAGCACCTCTGGACAGTGTGGAGGGCGGGTCTGA
 CCTTCTCAAGGACTCAAAGACCTCAGCTGCAGGGCCCTGAGGCAGCCTTCCAAGCTCTCACCCCTGA
 ATACACAGTCGAAGTGAAGGGGCTCTCTCTTGGGCCCAAGACAATCCAGCAAGAAGAATGTG
 TTAGAGCTTCGAAGCCGAGATGGCTCGGAGTACCTGATCCAGCAGACTCCGAAGCCATCATCAGCACCT
 GGCACAAAGCCATTGCCGAAGGCATCTCAGAGCTGTGTCAGACCTGCTCCAAGGGGAGGAGGTGAGCC
 CAGCAGTGTGATTTCCGGTCCAGTGCAGCGCTCGGAAGCTGGCGGGAGGAGGATGTACGGCAGAACGCA
 GCCTCACCTCGCTCAGCCCGGAGGCCTGAAAGCGACTTGAGCAGAGTCCGGCACAAGCTCCGTAAT
 TCCTACAGAGACGACCCACTCTGCAGTCTTGGCGGACAAGGGTACATCAAAGACCAGGTGTTGGATG
 CGCGTGGCTCAACTGTGTGAGCGGAGAGGAGCCCTGTGCCACGCTTCGTGCAGCAATGCATCCGACC
 GTCGAGGCCCGGGGCTGGATATTGATGGGCTGTACCGCATCAGTGGAACCTGGCTACCATCCAGAAGC
 TGCCTATAAGGTGGATCAGATGAACGCTTGGACTTGGACGACGGCGCTGGGAAGACGTCACGATGAT
 CACGGGTGCCCTGAAGCTCTTCTCCGAGAGTGCAGGAACTCTTCCCTTCTCGCACTTCCACCAG
 TTCATAGCAGCCATTAAGCTGCAGGACCCAGCCAGCGCAGCCGCTGCGTGCAGTGCCTGGTGCAGCAGC
 TGCCAGCTCCCAACCAGGACAGCTCCGACTGCTCATCCAGCATCTGCGGGTTCATCGAGCATGGCGA
 GCAGAACCATGACTGTGCAGAATGTGGCCATAGTGTTCGACCCAGCTGCTGCGGCCAGAGATGGAG
 GAGGCCAGCATGCCATGACCATGGTGTCCAGAACCAGGTGGTGGAGCTCATCTACATCAGTGCAGCG
 ACATCTTCCACCGCAC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR231292 representing NM_001205236
 Red=Cloning site Green=Tags(s)

MAADVEGDVYVLVEHPFEYTGKDGRRIAIQPNERYRLRRSTEHWVHVRREPGRPFYLPQYVRELPA
 GDPAPAPQPSVPPQRPVPEPLAYDYRFVSTPVGADGSSAEPGRASSLCGPARQRTGGQRNSLAPGGPA
 CLYVRPAAPVPAQSLDDLARGGTAPPAGLLGSAGHFKASSVAGSWVCPRLAPSDSENVYEAIPDLRCP
 PRAESPKQVDDPPEPVYANVERQPRATSPRSAAAPPRLSPVWETHDTGTGRPYYPNDTGVTTWESPFE
 TPEGTTSPATSRASVSGESLETEWQYWDEESRRVFFYNPLTGETAWEDETEELEEDHQEQLEMQPSLS
 PRSPGQRPPTPETDYPELLASYPEEDYSPVGSFSDPGPASPLVAPPGWSCQITPDKQMLYTNQFTQEQW
 VRLLEDQHKGKPYFYNPEDSSVQWELPQVPIPAPRSVRKSSQSDTPAQASPPEEKIKTLDKAGVLHRTKTV
 DKGKRLRKKHWSTSWTVLEGGVL TFFKDSKTS AAGGLRQPSKLS TPEYTVELKGASL SWAPKDKSSKKNV
 LELRSRDGSEYL IQHDSEAI ISTWHKAI AEGISEL SADLLQGE GEPSSADFGSSERLGSWREEDVRQNA
 ASPSLSPGGLES DL SRVRHKL RKF LQRRPTL QSLRDKGYIKDQVFGCALAQL CERERSPVPRFVQCIRT
 VEARGLDIDGL YRISGNLATIQLRYKVDHDERLDLDDGRWEDVHVITGALKLFFRELPELFPF SHFHQ
 FIAAIKLDPAQRSRCVRDLVRTLPAPNQDTRLRLLIQHLCRVIEHGEQNRMTVQNVAI VFGPTLLRPEME
 EASMPMTVMVFQNVVELILHQCADIFPPH

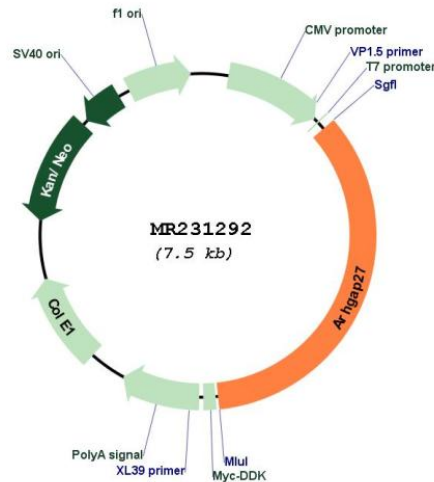
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001205236

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_001205236.1](#), [NP_001192165.1](#)

RefSeq Size: 4559 bp

RefSeq ORF: 2610 bp

Locus ID: 544817

UniProt ID: [A2AB59](#)

Cytogenetics: 11 E1

MW: 97.5 kDa

Gene Summary: Rho GTPase-activating protein which may be involved in clathrin-mediated endocytosis. GTPase activators for the Rho-type GTPases act by converting them to an inactive GDP-bound state. Has activity toward CDC42 and RAC1 (By similarity).[UniProtKB/Swiss-Prot Function]