

Product datasheet for **MG224354**

Arhgap27 (NM_133715) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Arhgap27 (NM_133715) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Arhgap27 |
| Synonyms: | 2310069I04Rik; 5730442P18Rik; Gm21552; Sh3d20 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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**ORF Nucleotide
Sequence:**

>MG224354 representing NM_133715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGATATGATTTCAAACCTGGTCAGAAGGCAGAGCCGGGCCCTGCGGGCACAGGTGGACGACCCCC
 CGGAACCAAGTGTATGCCAATGTAGAGAGGCAACCTCGGGCCACGTCGCCTCGCTCAGCTGCAGCTCCTCC
 TCGGCTCAGCCCAGTGTGGGAGACACACAGACACGGGCACTGGGCGCCCTACTACTACAACCCCGAC
 ACGGGCGTGACCACCTGGGAGTCAACCTTTGAAACACCTGAAGGCACCACCAGCCCGCCACCTCCCGGG
 CCTCTGTGGTAGCGGGGAGAGCCTGGAGACAGAGTGGGGCCAGTACTGGGATGAGGAGAGCCGAGGGT
 CTTCTTACAACCCCTTGACCGGTGAGACGGCCTGGGAGGACGAGACCGAGGAGCTGGAGGAAGATCAC
 CAGGAACAACCTGAAATGCAACCCAGCCTGAGCCCGCAAGCCCGGGCAGCAGAGGCCCAACTCCTG
 AAACAGACTACCCGAATTACTGGCCAGTACCCTGAAGAGGACTACTCTCTGTGGGCTCCTTCAGTGA
 TCCGGGCCCGCTTCTCCTTTGGTTGCACCCCTGGCTGGTCTGTCAAATTACCCAGACAAACAGATG
 CTCTACACCAACCAAGTCACTCAAGAGCAGTGGGTAAAGTTGGAGGACCAGCACGGGAAGCCATATTTCT
 ACAACCCAGAGGACTCCTCTGTTCAAGTGGGAGTACCCAGGTCCCGATCCCTGCCCCCGAAGTGTCCG
 CAAATCCAGCCAGGATAGCGACTCCAGCCAGGCTAGCCCTCCAGAGGAGAAGATCAAGACTCTGGAC
 AAGGCAGGAGTCTCCATCGTACCAAGACGGTAGACAAGGGGAAGAGACTTCGGAAGAAACACTGGAGCA
 CCTCTGGACAGTGTGGAGGGCGGGTCTGACCTTCTCAAGGACTCAAAGACCTCAGCTGCAGGCGG
 CCTGAGGCAGCCTTCAAGCTCTCCACCCTGAATACACAGTCAAGTGAAGGGGCTCTCTCTTTGG
 GCCCCAAAGACAAATCCAGCAAGAAGAATGTGTAGAGCTTCAAGCCGAGATGGCTCGGAGTACCTGA
 TCAGCAGGACTCCGAAGCCATCATCAGCACCTGGCACAAGCCATTGCCGAAGGCATCTCAGAGCTGTC
 TGCAGACCTGCTCAAGGGGAGGAAGGTGAGCCAGCAGTGTGATTTGCGGTCCAGTGAGCGCCTCGGA
 AGCTGGCGGGAGGAGGATGTACGGCAGAACGCAGCCTCACCTCGCTCAGCCCCGAGGCTGGAAGCG
 ACTTGAGCAGAGTCCGGCACAAGCTCCGTAATTCCTACAGAGACGACCCACTCTGCAGTCTTTGCGGGA
 CAAGGGCTACATCAAAGACCAGGTGTTGGATGCGCGCTGGTCAACTGTGTGAGCGGAGAGGAGCCCT
 GTGCCACGCTTCGTGCAGCAATGCATCCGACCGTCGAGGCCCGGGGCTGGATATTGATGGGCTGTACC
 GCATCAGTGGGAACCTGGCTACCATCCAGAAGCTGCGCTATAAGGTGGATCACGATGAACGCTTGGACTT
 GGACGACGGGCGCTGGGAAGACGTCCACGTGATCACGGGTGCCCTGAAGCTCTTCTCCGAGAGCTGCCG
 GAACCTCTTTCCCTTCTCGCACTTCCACCAGTTCATAGCAGCCATTAAGCTGCAGGACCCAGCCAGC
 GCAGCCGCTGCGTGCGTGACCTGGTGCGCACGCTGCCAGCTCCAACCAGGACACGCTCCGACTGCTCAT
 CCAGCATCTGCGGGTTCATCGAGCATGGCGAGCAGAACCAGTATGACTGTGCAGAATGTGGCCATAGT
 TTCGAGCCACGCTGCTGCGGCCAGAGATGGAGGAGGCCAGCATGCCATGACCATGGTGTTCAGAACC
 AGGTGGTGGAGCTCATCTACATCAGTGCAGGACATCTCCACCGCAC

ACCGGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224354 representing NM_133715
Red=Cloning site Green=Tags(s)

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MVDMISKLVRRQSRALRAQVDDPPEPVYANVERQPRATSPRSAAAPPRLSPVWETHDGTGRPYYYNPD
TGVTTWESPFETPEGTTSPATSRASVSGESLETEWGWYDEESRRVFFYNPLTGETAWEDETEELLEDH
QEQLMQPSLSRSPGQQRPPETDYPELLASYPEEDYSPVGSFSDPGPASPLVAPPWSCQITPDKQM
LYTNQFTQEQWVRELDQHGKPYFYNPEDSSVQWELPQVPIPAPRSVRKSSQSDTPAQASPPEEKIKTLD
KAGVLRHTKTVDKGKRLRKKHWSTSWTVLEGGVLTFFKDSKTSAAAGLRQPSKLSPEYTVELKGASLSW
APKDKSSKNVLELRSRDGSEYLIQHDSEAIISTWHKAI AEGISELSADLLQGEEGEPSSADFGSSERLG
SWREEDVRQNAASPSPGLESLSRVRHKLKFLQRRPTLQSLRDKGYIKDQVFGALACLKERESP
VPRFVQQCIRTVEARGLDIDGLYRISGNLATIQKLRKVDHDERLDLDDGRWEDVHVITGALKLFFRELP
EPLFPFSHFHFIAAIKLDPAQRSRCVRDLVRTLPAPNQDTRLRLLIQHLCRVIEHGEQNRMTVQNVIAIV
FGPTLLRPEMEEASMPMTMVFNQVVELILHQCADIFPPH
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_133715

ORF Size: 2010 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_133715.5](#), [NP_598476.2](#)

RefSeq Size: 3512 bp

RefSeq ORF: 2013 bp

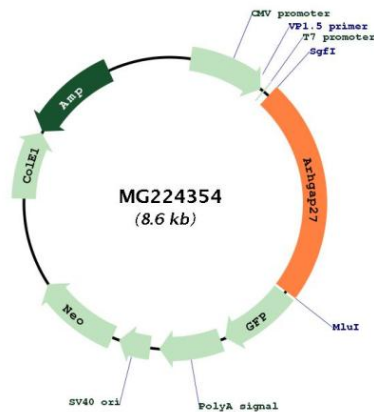
Locus ID: 544817

UniProt ID: [A2AB59](#)

Cytogenetics: 11 E1

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]

Product images:



Circular map for MG224354