

Product datasheet for **MR221334**

Arhgap40 (NM_001145015) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Arhgap40
Synonyms:	C20orf95; Gm14203; OTTMUSG00000015933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >MR221334 representing NM_001145015
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAGAGCCGTCCTTCTCCCTGCTGCCAAGATGGAAGGCTGGCCCTGCTGCCCTGACCTCACCT
 GTCCCGGATCCACAGAGCCGCATCTCCAGGCAGCCGGGCGATGGGCCACCTGGGCTGCAGCCCTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR221334 representing NM_001145015
 Red=Cloning site Green=Tags(s)

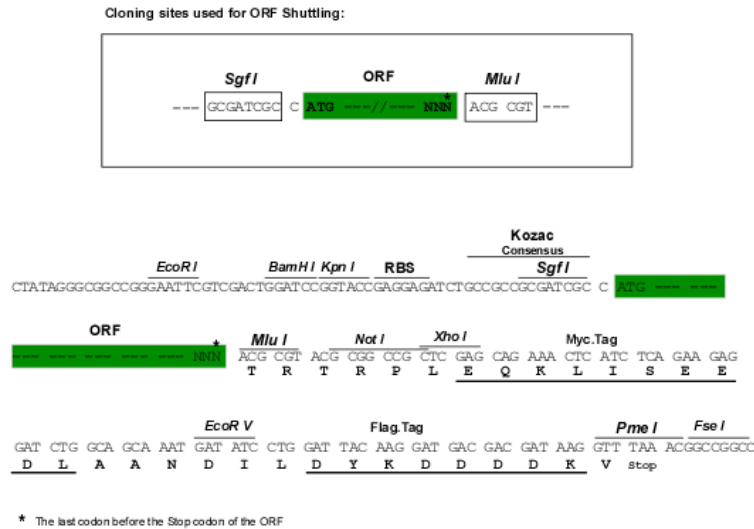
MTEPSLLPAKMEGLALLPLTSPCPRIIPRARISRQPGRWHLGCSPGLSTGPTNLQQHPQKPRPADCSHS
 RL SWAESLSMDGFWMVERIQRAEVKKEDCGEGRSLLLEGDTESQWLQDTGLSGLAGGLDGDHQQGLL
 STL TQTQVAAVCRRLDIYARSARRRQKAPVRDVRDIFGVFTSRELAPENGVSQMKWTKINSEDSASPLRS
 AEPGGPQELAGMEEVFNMDSAYSEQAAVLLQRAWPSPGTTAWGKGPLPRFRIPKGRLGVTIRIGDLSSRD
 MKKIPLALIELTALYDILGLDLKCKGKWKGPDSGLFGVPLHSLLEADHRVFPSTQVPLLLQALLSCL
 EKRLDTEGILRVPGSQARVKGLEQKLERDFYAGLVSWDKVHPNDASDLLKRFRLKLPVPLLTAEYLP
 ASVPDIPDLKQRLQALHLLVLLLPEPNRNTLKALLEFLRKVAAQEQHNKMTLVWVSTVMVPSLFLPRGR
 PKLTKGGKQLAEGAAEVVCMVQYQDLLWTVASFLVAQVRKLNDSNGRRSQLCDGGLKTWLWRTHVDRDK
 AGEGLEATPKVAKIQVQATWPSMDLLQVPLNPSTRVTHVHLKLFTEHLNPGSQPEEGSENPNLSLHNTKP
 VTFLVYEVGGNIGERRLDPAAYLLDLYRANPHGEWVIRQSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9100_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145015

ORF Size: 2016 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145015.1](#), [NP_001138487.1](#)

RefSeq Size: 2028 bp

RefSeq ORF: 2019 bp

Locus ID: 545481

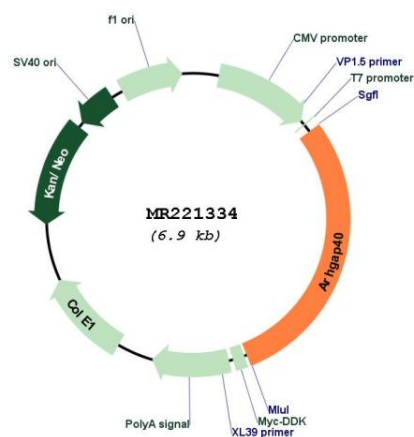
UniProt ID: [E9Q6X9](#)

Cytogenetics: 2 H1

MW: 74.3 kDa

Gene Summary: GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221334