

## Product datasheet for MR217166

### Arhgap20 (NM\_175535) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgap20 (NM\_175535) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arhgap20  
**Synonyms:** 6530403F17Rik; A530023E23Rik; mKIAA1391  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR217166 representing NM\_175535  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGCGATGTCTCCGCAGCAGGATGCTCTAGGGCGCAGCCGGGGCGCTCCTCCTCGCTGACAGGCA  
 TGTCTCGCATCGCGGGAGGCCCTGGCACCAAGAAGAAAATGAAAACACTCGCAGAAAGGAGGAGAAGCGC  
 CCCGTCCTCATCTGGACAAAGCCTTACAGAAGCGGCCGAGCACCAGAGACAGCCATTCTGCCAGCATT  
 GACACGTGTGCATTCCTCTCGTCTTCATGTGCTCCAGTCGCACTCTGCTGATTGATGGTCCAGTGAAC  
 TTTAAAGAGGCCCTGCAGAGGCAGGAGAGGCATCTTTTCCTATTCAACGATCTGTTTGTCTCAGCCAAAAT  
 CAAATATAACAACAACCTTAAGATAAAGAATAAAATAAGACTAAGTACATGTGGACAGCTAGCTGTGTG  
 GAGGAAGTGGGAGAAGGCAACATGAATGCTCAGAAGTCCTTTGTCTGGGCTGGCCACCGTGAACCTTTG  
 TGGCTACTTTTCAGTTCTCCAGAACAAAAGGACAAATGGCTGTCTCTCCTCAGAGATACATCGCTCTAGA  
 AAAGGAGAAAGACTACCCGAAGAGCATCCCCCTCAAAATCTTTGCCAAGGACATTGGAACTGTGCCTAT  
 TTTAAACTATAACAGTGATGAATTCAGACACAGCGAGTGAAGTTATCAACATGCTACTGCAAAATGTTAG  
 GAATAACTGGCTCTGAGAGAGATTACCAACTGTGGGTAATTCGGAAAAGAAGCGGCACCGTACCCACT  
 CATTGGACACGAGTATCCTTATGGAATTTAAATGAGCCACCTCCGAGACACTGCCCTTCTGACGCAGGGA  
 TCAAGAGACTCTGCCAGCCCATCCAGCTCCAAGAGCCTTTCCTCATGGAGCAGTGCCTCCGCGAGATGC  
 AATGCCAGTTTCATCCTGAAACCTACCCGCCTGGCGACAGCCAGCAACTGAGCGATTCCAGCCAGAAGAC  
 ATTTAAAAGGAGGCGCTCTATCATCAACTGGGCTTTTTGGCGGGTTCTAGCACACACCTGGACAACCTG  
 CCCATGTCACCAACATCCCCTATGCCAGGACAGCTCTTTGGAGTTTCTTTACCAGATCTTTGTGAGAACG  
 ACAATCTGCCAAAGCCTATCTTGGATATGCTTTCTTCTTAACCAAAAAGGCCCTCACAAAAGGCAT  
 CTTCAGGCAGTCGGCCAACATGAAATCTTGAGAGAGCTAAAGGAGAACTGAATCTGGAATCGAAGTC  
 CACCTTGACTGTGAATCCATCTTTGTGATAGCATCTGTGTTGAAGGATTTCTGAGAAATATCCAGAAA  
 GTATCTTTTCATCAGATCTATATGATCACTGGGCTGTGTAATGGATCAAGGAAATGATGAAGAAAAAT  
 AAATATAATTCAAAGGCTATTAGATCAGCTTCCAGAGCCAATGTTGTTTCTAAGGTATCTGTTGGG



[View online >](#)

GTATTACACAACATTGAACAACATTCCTTGTCTAATCAGATGACTGCATTTAACTTAGCAGTGTGTATCG  
CTCCAAGCATTCTTTGGCCTCCTGCTTCTCCAGTCCAGAGCTAGAAAATGAATTTACAAAAAGGTTTC  
TCTTCTTATACAATTTCTGATTGAAAACGCTGTAGGGTATTTGGAGAAGAAATCGCTTCTCTTTGGG  
GAGTTTCGGAGAGAAGCGACAGAGAACACACCCAGATATAACTTGCTTCCAAATGAACGACTCCTCT  
ATGACAGCTTGGAAAACGAGCTCAATGAGGAAGCTGATGCTCCATGCAGTGACCTGGTCAAAAAGCTTGG  
CCAGGGTAGCAGGAGCATGGACTCTGTCTTAACCCTCAGCGACTATGACCTTGAACAGCCTGAGGTGGAA  
GGCCTCTTAACCCTGAGCAACTTTGACTTAGATCAGTCTAAAGAGGAGCACATTCGATAAAGCCACCTC  
TGGAGCCCAAGCCAGTGAATGTTTTCGTAGGCTACAGGAAGTTTTCACTAGGGGAGCACGCTAGGGCCCC  
AGCTGGCCAGGCACACTCAGCTGCCTGCCTGTGGCTGCAGCAGATGCCCGAAAAGTCTGCGGCGGCAC  
CGGCGCTCCTCAGAACCCAGCATTGACTATCTAGACACAAAGCTTTCCTATCTCCGGGAGTTTTACCAGA  
AAAAGTGCGCAAGTCCAGCTGCGATGCTGCTCTCTAGAAAAGATGAAGATTACCTGAAGCAGACCCA  
GCCTCAGAAGAAAGGGGATAAGGTGTGTCTTAACAGAGTTCAGTGACAGGCACTGACGTGAGCAAGAGA  
AACACAGCTAATGAAAACATTAAGAAGAAAAGCTTGTCTGGTCATGAAGGAACTCAAGTGACACTTTTTA  
CTAAGTCCAAGCCAGTACCCATCTCTGTGGCATTTACAGCCACGGGTCTCCAGGATCATCCAGGAA  
GCAAGCCTTTGATGCAGACCCATGCCGGTCTCCCCACCACCTAACAGATGCCCAAAAGAGCTCAAGG  
GTGCAACATCGGGCTGTTCAGAACCCAGCATAGATGACCAGAACTACAAGCTGTCTATCTCAGGGGGA  
TCTATTCAATGAAACAAAATAAAGCCAGCTGTGAGGCTGGCCTTTGCATGGGGAGGACGACTATCTCAG  
AAGGCATAAGTCTTTGCAATCGAGGGCCAAAAGCTTATTAATCAGAGTTTGGTCATGGGCATTGAGGTG  
GGCAAGAGCAGCAGCTCTACCAAAGCACTGAGAAGGTTTTGCCCAAGACTAAACCTTTGCCAAGGG  
CAAGCTATTCAAGCTTATCTTCTCCAGGCTCGTCCCATCCGGCTCCTCTGTAAGCTCCAGGACAGCGC  
TTTCTCTCAGATCTCTGAACACTCCGTGTTTACGCCACCGAAACCTCCTACCAATAGATTGCACTTTC  
CAGACACAAAAGAAAACAAGAAGAGCTGTCTTACAGACTTTGACAGTCCCAGCCGCTTTCCGGAATGCCCG  
GTCCCTCCATGGGTGAGCCAGCAGCCACCTAGCTTATTTAAGAAGGGTACCACGGAGCAGCCATCACA  
AATGCATTCTGTAACCCTTACCCCAAGTGGTGGTTGAGAAGTGGCTTGGTCACTTTAAAAAAGTGGTCC  
CTCAAAAAGAAAACAAAAGCAGCCAGACCAGAAGACAGGAAAGTCTGTTCCCTGAAAAGCCTCTGGAGT  
TGCCGTGATGTGCTTCCGGTACCCAGAGGCTGACTCTCTACAAGAGAGTCAGGATGACTTACAGGGAGA  
TGAAGGACCTGGGCAAACAGCCTGTGGATTGAGTCTTATGCCTGTCAGGACTCAGAGCAACATGCCGGC  
TCTCCATTCCACCTGGCAGAAAGCAGACTCAAGCCTTGTATGAAGTTATATAAGGGAGAAGAGAGTGGAG  
GGCAGTACCCTTGTGATAACCCTTGGGAAGGAGCCTCTTCAAGTCTGGAGACCACGGAGGATACAGCCAA  
CCCAGGTGCAGAACCTACAACATTTGCGATGACGGGGACAGATATT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217166 representing NM\_175535  
Red=Cloning site Green=Tags(s)

```
MEAMSPQQDALGAQPGRSSSLTGMSRIAGGPGTKKKMKTLAERRRSAPSLILDKALQKRPSTRDSHSASI
DTCAFLSSFMCSSRLLIDGPVELKRGLQRQERHLFLNDLFVSAKIKYNNNFKIKNKIRLDMWTASCV
EEVGEGNMNAQKSFVLGWPTVNFVATFSSPEQKDKWLSLLQRYIALEKEKDYPKSIPLKIFAKDIGNCAY
FKTITVMNSDTASEVINMSLQMLGITGSERDYQLWVNSGKEAAPYPLIGHEYPPYGIKMSHLRDTALLTQG
SRDSASPSQLQEPFLMEQLPREMQCFILKPTRLATAQQLSDSSQKTFKRRRSIINWAFWRGSSTHLDNL
PMSPTSPMPGQLFGVSLPDLCEMDNPKPILDMLSFLNQKGPLTKGIFRQSANMKSCRELKEKLNSEIEV
HLDCEIFVIASVLKDFLRNIPESIFSSDLYDHWVCVMDQGNDEEKINIIQRLLDQLPRANVFLRYLFG
VLHNIEQHSLSNQMTAFNLAVCIAPSILWPPASSSPELENEFTKKVSLLIQFLIENCCRFVGEIASLLG
ELSERSDREHTPDITCFQMNDSYDSLLENELNEEADAPCSDLVKKLGQGSRSMDSVLTLSDYDLEQPEVE
GLLTLSNFDLQSKEEHIPKPPLEPKPVNVFVGYRQVSLGEHARAPAGPGLSCLPVAADAPKVLRRH
RRSSEPSIDYLDTKLSYLREFYQKLRKSSCDAVLSRKDEDYKQTPQKKGDKVCLKQSSVTGTDVSKR
NTANENIKKSLSGHEGTQVTLFTKSKVPISVASYSHGSSQDHPKQAFDADPCRFSPPHLTDAQKSSR
VQHRRCEPSIDQNYKLSYLRGIYSKQNKASCEAGLLHGEDDYLRHKSLQIEGQKLINQSLVMGIEV
GKSSSSHQSTEVLPRLNLCPRASYSSLSPGSSPSGSSVSSQSAFSQISEHSVFTPTETSSPIDCTF
QTQRKQEELSSDFDPSRLSGMPGSPMGQASSHLAYLRKGTTEQPSQMHSVTLHPSAWLRSGLVTLKNWS
LKKKTKAARPEDRKVCSLKEPELPCASGTPESLQESQDDLQGDGEPGQTACGFSYACQDSEQHAG
SPFHLAESRLKPCMKLYKGEESGGQYPCDNPWEGASSSLETTEDTANPGAEPPTFAMTGTDI
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9110\\_b02.zip](https://cdn.origene.com/chromatograms/mm9110_b02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

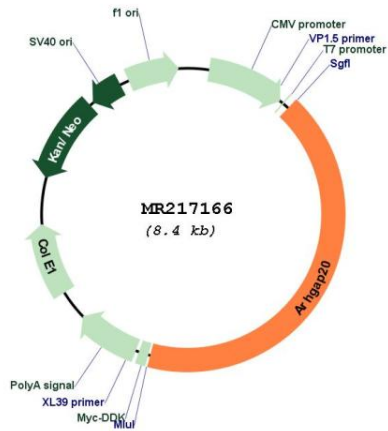


**ACCN:** NM\_175535

**ORF Size:** 3546 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175535.4</a>
<b>RefSeq Size:</b>	6365 bp
<b>RefSeq ORF:</b>	3549 bp
<b>Locus ID:</b>	244867
<b>UniProt ID:</b>	<a href="#">Q6IFT4</a>
<b>Cytogenetics:</b>	9 A5.3
<b>MW:</b>	131.4 kDa
<b>Gene Summary:</b>	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 MR217166