

## Product datasheet for **MG217168**

### Arhgap15 (NM\_001025377) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgap15 (NM\_001025377) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Arhgap15  
**Synonyms:** 5830480G12Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217168 representing NM\_001025377  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAAAGGACAAGCTGCAGTGTGCAGACATCTACAACTGTGACAACTCTCTGAAATACTGAATT  
CTGCCACCAAGCTACAGGAGCTGTGCAATGAGAATCAAAAATGCCAACAGCCACCAAGACAGGCAGAG  
CCAACTAAATCCATGATCCTCACCGATGCTGGGAAGTCACTGAACCTATTTCCCGGCACAGAAGGAAT  
CATTACAGCATGTGTTGAAAGATGTCATTCCACCACTAGAACATCCAATGGTTGAAAAAGAAGGGTATC  
TTCAAAAAGCCAAAATTGCAGATGGAGGAAAGAACTAAGGAAAACTGGTCTACTTCTGGATTGTTCT  
TTCTGGTCGAAAAATTGAATTTTACAAAGACTCCAAGCAGCAAGCTTCTCTAACATGAAAACCAGGCAC  
AACGTGGAAGTGTGGATTTGTGTGGTGCACATATAGAATGGGCCAAAAGAAAAATCAAGCAGAAAGATG  
TCTTTCAGGTAAGAATGCCACCTGTGCTCAATTTCTCTTTTCCCTCAAATCTGAGCCCCCTCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217168 representing NM\_001025377  
Red=Cloning site Green=Tags(s)

MEKRTSCSVQTSTNCDNSLEILNSAHQATGAVQMRIKNANSHQDRQSQTSMILTDAGKVTEPISRHRN  
HSQHVLDKDVIPPLEHPMVEKEGYLQKAKIADGGKLRKNWSTSWIVLSGRKIEFYKDSKQALPNMKTRH  
NVESVDLCGAHIEWAKEKSSRKSVMPPVLFLLFPPNLSPLR

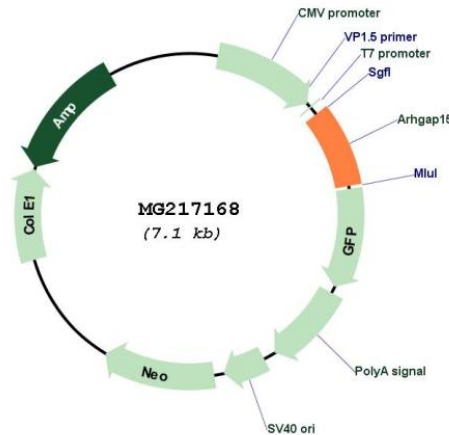
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001025377

**ORF Size:** 558 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.

<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>	<u>NM_001025377.1, NP_001020548.1</u>
<b>RefSeq Size:</b>	1816 bp
<b>RefSeq ORF:</b>	561 bp
<b>Locus ID:</b>	76117
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	The protein encoded by this gene is a RAC GTPase-activating protein that is regulated through its PH domain and by recruitment to the membrane. The protein accelerates hydrolysis of guanosine triphosphate to guanosine diphosphate to repress Rac activity. Knock-out of Arhgap15 function demonstrates that this gene is required to regulate multiple functions in macrophages and neutrophils. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]