

## Product datasheet for **RG219615**

### **A2ML1 (NM\_144670) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** A2ML1 (NM\_144670) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** A2ML1  
**Synonyms:** CPAMD9; OMS; p170  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG219615 representing NM\_144670  
Red=Cloning site Blue=ORF Green=Tags(s)

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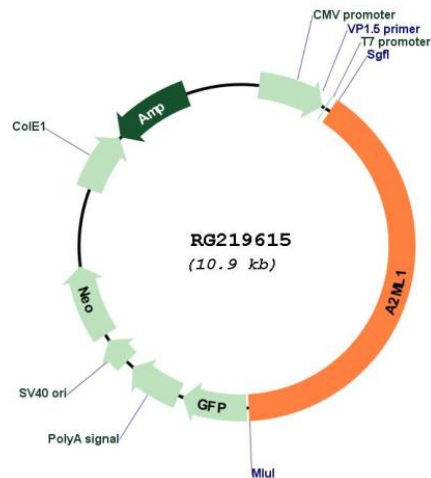


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TACTATTTAATAGGGAAAGGAAGTTTGGTGATGGAGGGGCGAGAAACACCTGAACTCTAAGAAGAAAGGAC  
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TGGTACCAACTTGAACCAGCAACCATCAAGGTCTATGACTACTACCTACCAGATGAACAGGCAACAAT  
TCAGTATTCTGATCCCTGTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA



**Plasmid Map:**


**ACCN:** NM\_144670

**ORF Size:** 4362 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\\_144670.2](#), [NP\\_653271.2](#)

**RefSeq Size:** 5123 bp

**RefSeq ORF:** 4365 bp

**Locus ID:** 144568

**Cytogenetics:** 12p13.31

**Gene Summary:** This gene encodes a member of the alpha-macroglobulin superfamily. The encoded protein is thought to be an N-glycosylated monomeric protein that acts as an inhibitor of several proteases. It has been shown to form covalent interactions with proteases, and has been reported as the p170 antigen recognized by autoantibodies in the autoimmune disease paraneoplastic pemphigus (PNP; PMID:20805888). Mutations in these gene have also been associated with some cases of Noonan syndrome (NS; PMID:24939586) as well as some cases of otitis media (PMID:26121085). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]