

## Product datasheet for **MG211340**

### Adamts1 (NM\_009621) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                            |
| Product Name:             | Adamts1 (NM_009621) Mouse Tagged ORF Clone                     |
| Tag:                      | TurboGFP                                                       |
| Symbol:                   | Adamts1                                                        |
| Synonyms:                 | ADAM-; ADAM-TS1; ADAMT; ADAMTS; ADAMTS-1; C3-C5; METH-1; METH1 |
| Mammalian Cell Selection: | Neomycin                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                         |



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**ORF Nucleotide  
Sequence:**

>MG211340 representing NM\_009621  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCAAAGTCCCTTTGGGGTCACGCAAGCAGAAGCCCTGCTCCGACATGGGGGACGTCCAGCGGG  
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 ACCCCACGCCTCAGGACGCGGGAAGCCATCAGGACCAGGAAGCATAAGGAAGAAGCGATTTGTGTCCAG  
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 CATTACCTTCAACCCTGTTCTCGGTGGCAGCCAGGTTTTACAAGCATCCAGCATTAGGAATTCATTA  
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 TGAAATGTGTGTCCACGATGGGGCGTGTATCAAATGAGAGCTGTGATCCTTTGAAGAAGCCAAAGCA  
 TTACATTGACTTTTGCACACTGACACAGTGCAGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG211340 representing NM\_009621  
 Red=Cloning site Green=Tags(s)

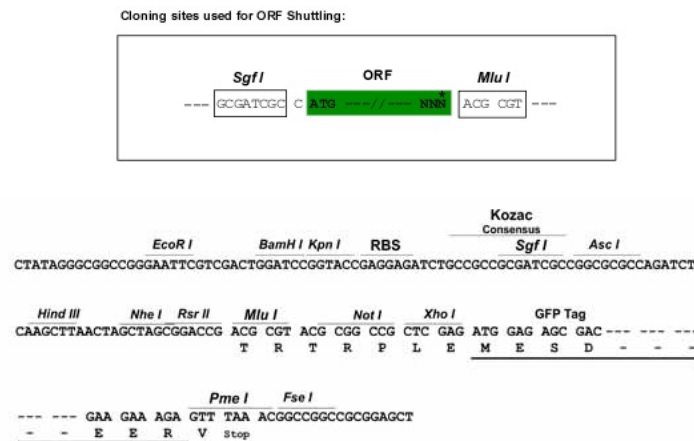
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 PHWQVGDWSPCSKTCGKYKRTLKCVSHDGGVLSNESCDPLKKPKHYIDFCTLQCS

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

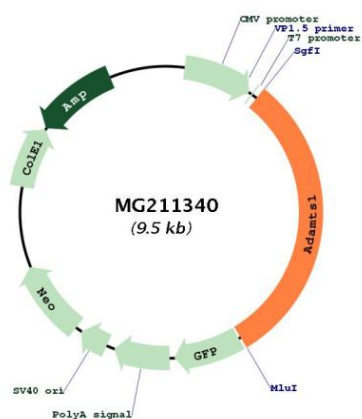


**ACCN:** NM\_009621

**ORF Size:** 2904 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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq:</b>                | <a href="#">NM_009621.3</a> , <a href="#">NP_033751.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>           | 4909 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq ORF:</b>            | 2907 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Locus ID:</b>              | 11504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID:</b>            | <a href="#">P97857</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cytogenetics:</b>          | 16 48.2 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) family and preproprotein that is proteolytically processed to generate a mature protein product. This secreted protein product plays an important role in ovulation, likely through its cleavage of the extracellular matrix component versican. The encoded protein may enhance tumorigenesis in a mouse model of breast cancer. Homozygous knockout mice for this gene exhibit enhanced perinatal lethality, impaired growth and adipose tissue development, and impaired ovulation in females. [provided by RefSeq, Oct 2015] |

## Product images:



Circular map for MG211340