

## Product datasheet for **MR211102**

### Adamts16 (BC034739) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts16 (BC034739) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adamts16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR211102 representing BC034739  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTCCCAGGTTGTGCTGCGCTCTGGGTGCTGCTGCTGGCGCAGGTCAGTGAGCAGCAGACACCTG  
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 CAGCTGCCAGCCAGCTACTCATGGGCCATCGTACGCTCTGAGTGTCCGTCTCTGTGGAGGGGATAG  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
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**Protein Sequence:** >MR211102 representing BC034739  
Red=Cloning site Green=Tags(s)

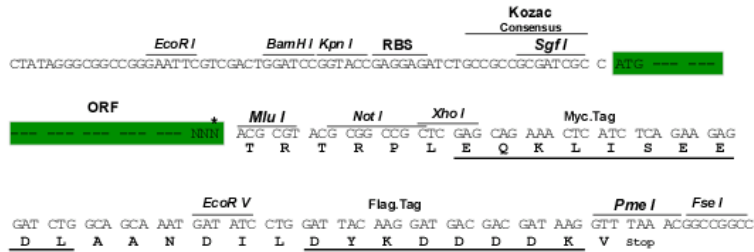
MESRGCAALWVLLLAQVSEQQTPACALGLAAAASGSPEDPQPPPFSGSSWLETGEYDLVSAYEVDHRGDY  
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KSHRNEELNVETLVVVDKMMQSHGHENITTYVLTILNMVSALFKDGTIGGNINIIVGLILLEDEQPL  
AISHHADHTLTSFCQWQSGLMGKDGTRHDHAILLTGLDICSWKNEPCDTLGFAPISGMC SKYRSCTVNE  
SGLGLAFTIAHESGHNF GMVHDGEGNMCKKSEGNIMSPTLAGRNGVFSWSSCSRQYLHKFLSTAQAICLA  
DQPKPVKEYKYPEKLPQQLYDANTQCKWQFGEKAKLCMLDFRKDICKALWCHRIGRK CETKFMPAAEGL  
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KLCNSQRCLDSVDFRAAQCAEYNSKRFRGWL YKWKPYTQLEDQDLCKLYCIAEGFDFFFSLSNKVKDGT  
PCSEDSRNVCIDGMCERVGCDNVLGSDATEDSCGVCKGNNSDCVTHRGLYSKHHSTNQYYHMVTIPSGAR  
SIHIYETNISTSYISVRNSLKRYYLNGHWSVDWPGRYKFSGATFNKRSYKEPENL TSPGPTNETLIVEL  
LFQGRNPGVAWEFSLPRSGAKKTPAAQPSYSWAIVRSECSVSCGGDRQCQTGRGHLEISS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

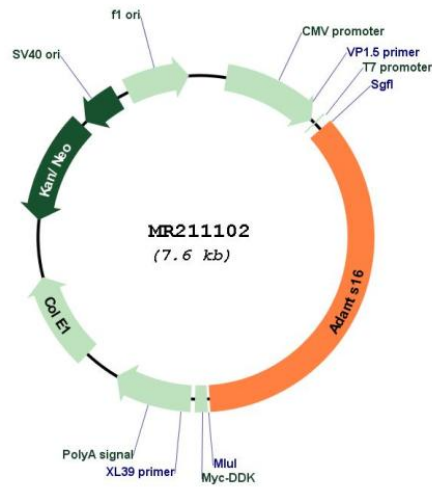
## Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



<b>ACCN:</b>	BC034739
<b>ORF Size:</b>	2700 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="#">BC034739.1</a>
<b>RefSeq Size:</b>	3402 bp
<b>RefSeq ORF:</b>	2702 bp
<b>Locus ID:</b>	271127
<b>Cytogenetics:</b>	13 35.97 cM
<b>MW:</b>	124.7 kDa
<b>Gene Summary:</b>	This gene encodes a member of "a disintegrin and metalloproteinase with thrombospondin motifs" (ADAMTS) family of multi-domain matrix-associated metalloendopeptidases that have diverse roles in tissue morphogenesis and pathophysiological remodeling, in inflammation and in vascular biology. This gene is co-expressed with the Wilms tumor protein, Wt1, in the developing glomeruli of embryonic kidneys. The encoded preproprotein undergoes proteolytic processing to generate an active enzyme. [provided by RefSeq, Jul 2016]