

Product datasheet for **MC224003**

Adamts16 (NM_172053) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts16 (NM_172053) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adamts16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224003 representing NM_172053 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCCCAGGTTGTGCTGCGCTCTGGGTGCTGCTGCTGGCGCAGGTCAGTGAGCAGCAGACACCTG
CGTGCGCCCTGGGACTCGCAGCTGCAGCGTCTGGGAGCCCGGAAGACCCGCAGCCTCCCCATTCTCTGG
GTCCAGCTGGCTGAAACCGGTGAGTATGACCTGGTGTCTGCCTATGAAGTAGACCACAGGGGGATTAT
GTATCCCATGACATCATGCACTACCAGCGGAGGCGTCGGAGAAGAGCTGTGACCCAGCCAGGAGGATG
CCCTGCACCTAAGGCTTAAGGGCCCTAGGCATGACCTCCACCTCGACCTCAAAGCTGCCAGCAACTTGAT
GGCTCCTGGATTATGGTGCAAACCTCTGGGGAAGGGAGGCCAAAGTCTGTACAGATGTTCCACCAGAA
GAGAACTGCTTTTACCAAGGATCCTTAAGTCCCAGGGGAATTCCTCAGTGGCCCTTTCTACCTGCCAAG
GTTTGTTAGGCATGATAAGAACAAAAGACACTGATTACTTCTTGAAGCCACTGCCTCCACACCTAACAAG
CAAACCTGAACAGATCTGCACAGGGCGACTCCCCCTCCCATGTTCTGTACAAGAGATCTACAGAGCGCCAG
GCTCCTAGAGAAAACGAAGTCTGATGATCACCAGGAAGCGAGATCTGGCAAGACCACACCTGCACCATG
ACAACCTCCATCTTGGCCCTCACAAAAGCAGCATTCTGTGGAAGACGCAAGAAATACATGCCTCAGCC
TCCCAACGATGACCTCTACATCTTGCCTGATGAGTACAAGCCTAGTTCGGACACAAGCGCTCGCTCTTG
AAATCCCACAGAAATGAAGAGTTAAATGTGGAGACACTGGTGGTGGTTGACAGAAAGATGATGCAAAGCC
ATGGCCATGAAAACATTACGACTTATGTCTCACCATTCTCAACATGGTGTCTGCCTTATTAAGGATGG
AACAAATGGGGGAAACATCAACATTGTCTTGTGGGACTCATTCTGCTGGAAGATGAACAGCCAGGGCTG
GCGATTAGTCACCATGCAGACCACAGTAAACCAGCTTCTGCCAGTGGCAATCCGGATTGATGGGGAAAAG
ATGGAACCTCGTACATGACCACGCCATCTTACTGACTGGTCTGGACATATGTTTCTGGGAAGAATGAGCCCTG
TGACACATTGGGGTTTGACCCATAAGCGGGATGTGCAGTAAGTACCGCAGCTGCACAGTCAATGAAGAC
TCAGGACTTGGACTGGCCTTACCATTGCCATGAGTCTGGACACAACCTTGGCATGGTCCATGATGGAG
AAGGGAATATGTCAAGAAATCTGAGGGCAACATTATGTCCCCAACACTGGCAGGACGCAATGGTGTCTT
CTCCTGGTCTTCTGACGCCGTGACTGACCAAGTTCTTAAGCACCGCCCAAGCGATATGTCTTGGT
GATCAGCCAAAGCCTGTGAAAGAGTATAAGTACCCCGAGAAGCTGCCGGGACAGTTATACGATGCAAATA
CCCAATGCAAGTGGCAGTTTGGAGAGAAAGCAAGCTCTGTATGCTGGACTTCAGAAAGGACATCTGTAA



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GGCCTTGTGGTGCCATCGGATTGGAAGGAAATGTGAGACCAAGTTCATGCCAGCAGCAGAGGGTACTCTG
TGTGGGCAGGACATGTGGTGTCTGTGGAGGACAGTGTGTCAAGTACGGTGATGAAGGCCAAAGCCCACCC
ATGGCCATTGGTCAGATTGGTCCCCCTGGTCCCCCTGCTCCAGGACCTGTGGGGGAGGAATCTCTCACAG
AGACCGTCTCTGTACCAATCCCAGACCATCTCATGGAGGGAAGTTTTGCCAGGGCTCCACACGCACTCTG
AAGCTTTGCAACAGTCAGAGATGCCCTCTGGACAGTGTGGATTTCCGTGCTGCCAGTGTGCCGAGTATA
ACAGCAAGCGCTTCGAGGGTGGCTCTACAAGTGAAGCCTTACACCCAGTTGGAAGATCAGGACTTATG
CAAACCTACTGTATCGCAGAAGGATTTGATTTCTTTCTTTCTTTGTCAAATAAAGTGAAGATGGGACT
CCATGCTCGGAGGATAGCCGTAATGTTTGTATAGATGGGATGTGTGAGAGGGTTGGCTGTGACAATGTCC
TTGGATCAGATGCAACAGAGGACTCCTGTGGGGTCTGCAAGGGGAATAACTCAGACTGTGTACGCATAG
AGGGCTCTACAGTAAGCACCATTCCACCAACCAGTACTACCACATGGTAACCATTCTTCTGGAGCTCGG
AGCATTACATCTACGAAACAAACATCTCTACCTCCTATATTTCTGTGCGCAATTCTCTCAAGAGATATT
ACCTGAATGGACACTGGAGTGTGGACTGGCCTGGGCGATAACAAGTTTTCGGGTGCCACCTTCAACTACAA
ACGGTCTACAAGGAGCCTGAGAATTTAACCTCCCCTGGACCAACCAATGAAACTCTGATTGTGGAGCTT
TTGTTCCAAGGCAGGAACCTGGTGTGGCCTGGGAATTTTCATTGCCAAGGTGAGGGCTAAGAAGACTC
CAGCTGCCAGCCAGCTACTCATGGGCCATCGTACGCTCTGAGTCTCCGTCTCCTGTGGAGGGGGCAA
GATGAACCTCAAAGCGGGATGCTACAGAGACCTGAAGGTTCCGGTGAATGCATCTTTCTGCAACCCCAAG
ACACGACCTGTACAGGCCTTGTGCCCTGTAAGGTGTACCTTGTCTTCCAGCTGGTCTGTGGGAAACT
GGAGCGTGTGCAGCCGGACATGCGGTGGGGGCACCCAGAGCAGGCCCGTGCAGTGCACACGGAGGGCACA
CTACCGTGACGAGTCCATCCCAGCCAGCCTGTGTCCACAGCCCGAGCCCCCATTACCAAGCCTGTAAC
TCTCAGAGCTGCCACCTGCTTGGAGCACTGGGCCCTGGGCGAGTGTCAAGGACCTGTGGGAAGGGGT
GGAGGAAGAGGACAGTGGCCTGCAAAAGCACAACCCCTCAGCTCGAGCCAGCTGTTGCACGCACTGC
CTGCACTTCAAGCCAAAGCCTCGGACCCACGAAATCTGCCTGCTCAAGCGCTGCCACAAGCACAAGAAG
CTACAGTGGCTGGTATCTGCCTGGTCCCAGTGTCTGTGACATGCCAGGGGGGGACACAACAGAGAGTTC
TCAGGTGTGCTGAGAAGTACATCTCCGGAAAGTATCGAGAGCTGGCCTCGAAGAAATGCTTGCATCTGCC
AAAGCCTGACCTGGAGCTGGAACGCGCCTGCGGCCTGATTCCCTGCCCAAAACACCCTCCGTTTGTGCT
TCAGGCTCCCAAGAGGCAGCTGGTTTGCCTCACCTGGTCTCAGTGCACAGCCAGCTGTGGGGTGGTG
TGCAGAGGAGGACTGTACAGTGCCTGCTTCGGGGACAGCCAGCCTCAGATTGCTTCTGCATGAGAAACC
TGAGACCTCCTCAGCGTGAACACCCATTTCTGCCCATTCAGAGAAGAGAGGCACCTTCTGCAAAGAC
CTCTTCCACTGGTGTACCTGGTACCTCAGCACGGCATGTGTGCCACAGGTTCTACAGCAAGCAGTGT
GCAATACCTGCTCCAAATCCAACCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1943_b06.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_172053

Insert Size: 3669 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_172053.2](#), [NP_742050.2](#)

RefSeq Size: 4986 bp

RefSeq ORF: 3669 bp

Locus ID: 271127

UniProt ID: [Q69Z28](#)

Cytogenetics: 13 35.97 cM

Gene Summary: 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]
 Transcript Variant: This variant (1) represents the shorter transcript and encodes the functional protein.