

Product datasheet for **MC223599**

Adamts10 (NM_172619) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts10 (NM_172619) Mouse Untagged Clone
Tag: Tag Free
Symbol: Adamts10
Synonyms: 9430006O18; Adam-ts10; Adamts-10; AW045948; Zn; Znmp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223599 representing NM_172619
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCTGCCTGCCAGATCCTCCGCTGGGCCCTTGCCTGGGGCTGGGCCTCACATCAAGGTCAGC
ATGCCTCAGATCTCAAGATGAGCTCCTGTCCAGTTGGAGAGCTATGAGATTGCCTTCCAACTCGAGT
GGACCACAACGGGCAATGCTGGCCTTCTCCACCTGCCTCCGGAGGCAGCGTCGGGGTGCAGGGCT
ACAACTGAGTCCCGCCTATTCTACAAGGTGGCCGCACCCAGCACTCACTTCTGCTGAACCTGACCCGCA
GCCCCGCTCTCCTGGCAGGGCACGTCTCGGTGGAATACTGGACACGGGAAGGCCTGGCTTGGCAGAGGGC
TGCCCCGGGCCACTGCCTATACGCTGGCCACCTGCAGGGCCAGGCTGGTAGCTCCCATGTGGCCGTGAGC
ACCTGTGGGGGCTGCATGGCCTGATTGTGGCAGATGATGAAGAGTATCTGATTGAACCCCTGCAAGGTG
GACCCAAAGGTCACCGTGGCCAGAAGAGAGTGGCCCCATGTAGTATAACAAGCGTTCTCTCTGCGTCA
CCCCATCTGGACACAGCCTGTGGAGTGAAGATGAGAAACCGTGAAGGGTCGTCATGGTGGTTACGT
ACCCTGAAGCCACCACCTGCCAGGCCCTGGGGAATGAATCTGAGCGAGGCCAGCTGGCCCTGAAGAGAT
CAGTCAGCAGAGAGCGCTATGTGGAGACCCTGGTGGTAGCCGACAAGATGATGGTGGCCTACCATGGCG
GAGAGATGTGGAGCAGTATGTGTTGGCCATCATGAACATTGTTGCCAACTTTTCCAGGACTCGAGTCTG
GGAAACATCGTCAACATCCTGGTCACTCGCCTCATCCTGCTCACAGAGGACCAGCCACCCTGGAGATCA
CCCACCATGCCGGGAAGTCACTGGACAGCTTCTGTAAGTGGCAGAAATCCATCGTGGCCACAGTGGCCA
TGGCAACGCCATCCCAGAGAATGGTGTGGCAAACCATGACACAGCTGTGCTCATCACAGCTATGACATC
TGCATCTACAAGAACAACCTGCGGCACTCTAGGCTGGCCCCGTGGGTGGAATGTGTGAGCGTGAGA
GGAGCTGCAGTATCAATGAAGATATCGGCTGGCCACGGCTTTCACCATTGCCATGAGATCGGGCACAC
ATTTGGCATGAATCACGATGGCGTGGGAAACGGCTGTGGGCCCCGTGGGAGGCCAGCGAAGCTCATG
GCTGCCACATTACCATGAAGACTAATCCATTCGTGTGGTTCATCGTGTAGTGCAGACTACATCACCAGCT
TTCTGGACTCGGGCTGGGGCTTTGCTTGAATAACCGGCCTCCTAGACAGGACTTCGTGTACCCAACGGT
GGCTCCCGGCCAGGCCTATGATGCTGATGAGCAGTGCCGATTCCAGCATGGAGTCAAATCGCGTCAGTGT
AAATACGGGGAGGTCTGCAGTGAATGTGGTGTCTGAGCAAGAGCAATCGGTGCATCACCAATAGCATCC



CAGCTGCTGAGGGAACACTGTGCCAAACACACTATCGACAAAGGGTGGTGCTACAAACGAGTCTGTG
 CCCCTTTGGCTCTCGGCCAGAGGGTGTAGACGGGGCCTGGGGCCCTTGGACTCCATGGGGTGACTGCAGC
 AGGTCACTGTGGCGGTGGTGTGCATCTTCTAGCCGTCACTGCGACAGTCCCAGGCCAACATTGGGGGCA
 AGTACTGTCTGGGCGAGAGACGAAGGCACCGGTCTGCAACACCAATGACTGTCCACCTGGCTCCCAGGA
 CTTCAGAGAAATGCAGTGTCTGAATTTGACAGTGTCCCTTTCCGCGGAAAATTCTACACGTGGAAGACA
 TACCGAGGAGGGGTGTGAAGCCTGTTTCGCTGACTTGCCTAGCAGAAGGCTTCACTTTTATACGGAGC
 GAGCAGCAGCTGTGGTGGATGGAACACCTGCCGCCCTGACACGGTGGACATTTGTGTGTCAGCGCGAGTG
 CAAGCATGTAGGCTGTGACAGGGTCTGGGTCTGATCTCCGAGAGGACAAATGCCGTGTGTGGGGT
 GATGGCAGTGCCTGTGAGACCATTGAAGGTGTCTTTAGCCAGCTTTGCCAGAACTGGGTATGAGGACG
 TCGTCTGGATCCCCAAAGGCTCGGTCCACATTTTCATCCAAGATCTGAACCTGTCCCTGAGTCACTGGC
 CCTAAAGGGGACCAAGAGTCTCTGCTACTGGAGGGGCTACCTGGGACCCCCAACCTCACCGCCTTCCC
 CTGGCTGGAACCACATTTTCATCTACGGCAGGGGCCGACCAGGCACAGAGCCTGGAAGCCTGGGACCCA
 TTAATGCATCTCTCATCATCATGGTGTGGCCAGGCAGAGTTGCCTGCTCTCCACTACCGCTTCAATGC
 ACCCATGCCCCGGATGCACTGCCTCCCTACTCCTGGCACTATGCCCTGGACCAATGCTCAGCCAG
 TGTGCAGCGGCAGCCAGGTCCAAGTAGTGGAGTGCCGAAATCAGCTGGACAGCTCAGCAGTGGCCCCAC
 ACTACTGTAGTGCCACAGTAAATTGCCAAGAGGCAGCGTGCCTGCAACACAGAACCATGTCCACCAGA
 TTGGGTTGTAGGAACTGGTCACGCTGCAGCCGTAGCTGTGACGCTGGTGTGCGTAGCCGCTCAGTGGT
 TGCCAACGCCGGGTGTCTGCTGCAGAGGAAAAGCCTTAGACGACAGTGCCTGTCCACAGCCACGCCAC
 CTGTGCTGGAGGCTGCCAAGGCCAATGTGCCCTCCTGAGTGGGCAACCCTCGACTGGTCTGAGTGTAC
 CCCAAGCTGTGGGCTGGTCTCCGCCACCGAGTGGTCTTTGTAAGAGTGCAGATCAACGATCTACTCTG
 CCCCTGGGCACTGCCTTCTGCAGCAAGCCACCATCTACTATGCGATGTAACCTGCGCCGCTGCCCTC
 CTGCCCCCTGGGTGACCAGTGTGGGGTGGTGTCCACACAGTGTGGCCTCGCCAGCAGCAGCGCAC
 AGTGCCTGCACCAGCCACACCGCCAGCCATCTCGAGAGTGCCTGAAGCCTTGGCGCCATCCACCATG
 CAGCAGTGTGAGGCCAAGTGTGACAGTGTGGTGGCCTGGAGATGGCCAGAAGAATGCAAGGATGTGA
 ACAAGGTGGCTTACTGCCCTGGTGTCAAATTTTCAGTTCTGTAGCCGAGCCTACTTCCGCCAGATGTG
 CTGCAAAACCTGCCAAGGCCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_172619
- Insert Size:** 3315 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_172619.4, NP_766207.2](#)

RefSeq Size: 4176 bp

RefSeq ORF: 3315 bp

Locus ID: 224697

UniProt ID: [P58459](#)

Cytogenetics: 17 B1

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. The encoded preproprotein undergoes proteolytic processing to generate a functional, zinc-dependent metallopeptidase enzyme. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (1) encodes the longest protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: This CCDS representation lacks publicly available full-length transcript support in mouse. However, it is supported by the full-length human transcript AF163762.1, by partial mouse EST alignments including BB840099.1, and by the full-length sequence described for this mouse protein in PMID:15355968. Other mouse full-length transcript variants are available for this gene, including BC082773.1, AK042525.1 and BC056427.1, but it should be noted that all of these include an alternative splice acceptor site in exon 6, which results in a premature termination codon that likely leads to nonsense-mediated mRNA decay (NMD). The exon combination represented in this CCDS is therefore more likely to be protein-coding.