

Product datasheet for **MC224442**

Adamts13 (NM_001001322) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts13 (NM_001001322) Mouse Untagged Clone
Tag: Tag Free
Symbol: Adamts13
Synonyms: ADAM-TS13; ADAMTS-13; Gm710; vWF-CP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224442 representing NM_001001322
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCAGCTTTGCCTGTGGTTGACGTGCCAGCCTTGTATGCTGTGTCAGTGTGTCAGAGGAATCCTCACTG
 GTGCCATCTTCATTCTGGGCTGTGGGGCTCTCTGACTTCCAGAAGAGTCTTCTTCAAGATCTGGAGCC
 CAAGGATGTGCTTCTTACTTTGGCCACCATGCTGCTCCATTACAGGCCATCCTCCCTCTCACCTCCAG
 AGACTGAGACGGAGAAGGACTTTGGAGGACATTCTGCACCTGGAACCTCCTGGTAGCTGTGGGCCCGGATG
 TTTCCCGGGCTCATCAGGAGGACACAGAACGCTACGTGCTCACTAATCTCAATATCGGGTCAAGACTGTT
 GAGAAACCCATCCCTGGGAGTCCAGTTCACAGTGCACCTGGTGAAGCTAATCACCTCTCTGACTCAGAG
 AGTACTCCGAATATCACGGCCAACATCACCTCATCCTTGATGAGCGTCTGCGAGTGGAGCCAGACGATCA
 ACCCCACGATGACAGGGATCCAAGTACGCTGACCTGATTCTCTATATCACAGGTTTGACCTGGAGTT
 GCCTGATGGCAACCAGCAGGTTCCGGGTGTACCCAGCTGGGAGGTGCCTGCTCCCTTCTCTGGAGTTGC
 CTTACTACTGAGGATACTGGCTTTGACCTGGGGTACCCATCGCCATGAGATTGGGCACAGCTTCGGGC
 TGGACCATGATGGTGTCCAGGTAGTGGCAGCACCTGCAAGGCCAGTGGCCACGTGATGGCGGCTGATGG
 CGCAACACCTACTGGAGGACCCCTGGAGTGGTCTGCCTGCAGCCAAAGGCAGTTGCAGCACCTACTCAGC
 ACAGGGCAAATGCACTGCTTCCAGGACCCACCTGGGCTGCAGTACAGGACTTACACGGCACAGCTGATGG
 CACAGCCTGGCCTCTACTACAGTGCAGATGATCAGTGCCTGTGGCTTTTCGGTTCTGGGGCTGTCGCCTG
 CACCTTCTCCAGGGAGGGTCTGGATGATGCCAGGCCCTGCTGCTGCCACAGACCCCTTGGACCAAAGC
 AGCTGCAGCCGCCTCCTTGTCTCTCTGGATGGGACAGAATGTGGTGTGGAGAAGTGGTGTCCAAGG
 CTCGCTGTCGCTCCCTAGCTGAGCTGGCTCCTGTGGCTGCAGTACATGGACTGGTCTAGCTGGGGCC
 CCATAGTCCCTGCTCCCATCCTGTGGAGAGGTGTGATTACCAGGAGGGTGGTGAACAACCCAGG
 CCTGCATTTGGGGACGTGCATGTGTGGTGAAGACCTCCAGGCTAAGATGTGCAACACGCAGGCTTGTG
 AGAAGACTCAGCTGGAGTTCATGTCCGAGCAGTGTGCCAGACAGACAGACAACCACTGCAACTTTCCCA
 AGGCACTGCCTCCTTCTACCACTGGGATGCTGCTGTGCAGTATAGTCAAGGAGATACCCTGTGCAGACAC
 ATGTGCTGGGCTGTTGGAGAAAGCTTATTGTCAGCCGTGGGGACAGGTTCTAGATGGGACCCGTTGTG



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TGCCAAGTGGTCCTCAGGATGATGGGACCCTAAGCCTCTGTTTGTGGGCAGCTGCAGGACCTTTGGCTG
 TGATGGCAGGATGGACTCCCAGAAGTTTGGGATGCGTGCCAGGTGTGTGGAGGAGACAACAGCACCTGC
 AGCTCACGGAAATGGTTCTTTACAGCTGGGAGAGCCAGAGAATATGTCACGTTCTTGATTGTTACTCCCA
 ACATGACCAACGCACACATTGTCAACCCGAGGCCCTCTTTCACACACTTGGCGGTGAGGATCCAGGGCCA
 CTACATTGTGGCAGGGAAGACTAGCATCTACCCAACACCACCTACCCTTCCCTTCTGGAGGACTACCGT
 GTGGAATACAGAGTGACTCTCACTGAGGACCAGCTGCCCACTTAGAGGAGATTACATCCGGGGACCCG
 TCCGGGATGACATTGAGATTAGGTGTACAGACGATATGGAGGAGAATATGGGGATCTTACACACCAGCA
 CATCACCTTTTCTACTTTCAACTGAAGCAGCAGGCAGCCTGGGTATGGACCGCTAAGCGTGGACCCTGC
 TCAGTGAGCTGTGGGGCAGGGCTGCGCTGGGTGACCTACAGCTGCCAGGATCAAGCTCAAGACAAGTGGG
 TAAAGAACGCCAGTGCCAAGGGAGCCACAGCCACCTGCATGGCAAGAGCCTTGTGTCTGCCCCCTG
 CTCCCCATATTGGGTAGCTGGGACTTCAGCCCATGTAGCGTGTCTTGTGGCGGGGGCCTTCGGGAGCGG
 TCACTGCGCTGTGTAGAGACCAAGATGGCTTCTTAAAGACTGCCACCTGCCCGTGCAGAGCAGTAG
 CCCAGCAGCCAGCAGCAGAAGTGGAAAAGTGAACCTCCAGCCCTGTCCCAGGTTGGGAGGTGCAGAG
 CCCTGGCCCTTGATGTCATCTGCCTGTGAGGCAGGTCTGGACTCAAGGAATGTGACATGTGTGCCAGG
 GCGGGTGACCCGAGAAGCCAGAAAAGTGCAGGCCCTGCCGACCGACGAGATGTGAGCTATGCTGGAGC
 CCTGCTCCAGGAGCCTGTGTTCTCAGGCTTGGGTGAGGTGACAAACCATGTCTCTGGGAGAGGAGGC
 TCCATCCCCGGTGGGCAGTGACAAGCCAGGGGCTCAGGCTGAGCATGTGTGGACCCTCTGGTGGGGCTG
 TGCTCCATCTCTTGTGGGAGAGGTCTGAAGGAAGTGTATTTCTGTGCATGGATTCTGTCCTCAAATGC
 CTGTCCAGGAAGAGCTATGCGGCTTGGCTAGTAAGCCCCAAGCCGGTGGGAGGTCTGCAGGGCTCGCCC
 CTGTCTGCTCGGTGGGAGACTCAAGTCTTGGCACCGTGCCCGGTGACCTGTGGTGGGGGGCAGTGCCA
 CTGTCTGTTGTTGTGTGCAGCTAGACCGTGGCCACCCGATATCTGTACCTCACTCCAAGTGTCTCGCCAG
 TGCCATAGCCAGGCTCCTTCGAGGACTGCAGCCCTGAGCCTTGTCTGCTAGATGGAAAGTCTGTCCCT
 TGGCCCATGCTCAGCCAGCTGTGGCCTTGGCACTGCCACACAAAAGTGGTGGCCTGCATGCAGTTGACCAG
 GGCCATGACAATGAGGTGAATGAAACTTTCTGTAAAGCTCTAGTGCGGCCCTCAGGCCAGTGTCCCTGCC
 TCATTGCTGACTGCGCATTCCGGTGGCAGCATCAGCGCCTGGACAGAGTGCTCTGTCTCTGTGGGACGG
 TATTACGCGCCGCATGACACCTGCCTTGGACCCAGGCCAAGTGCCTGTGCCAGCCAATTTCTGCCAG
 CACCTGCCAAGCCAATGACCGTGAGAGGCTGTGGGCTGGACCTGTGCAGGGCAGGAGACCTCCAGCT
 CACTGCCTCACAAGGAAGCTACTCTTCCAGTCAGACCCAGGCTGCTGCTACTGTTGCTTCTGTCAGTG
 GTCCCAGCCCCGAGCCCGACCCACCCTTTTCTCAGCCTCCAGTCTCTGGGGCTCCAGGAAAACCTG
 GAAGAGCATGGTGCCTGTGGAAGGCAGTACCTGGAGCCCACAGGAACCATTACATGCGAGATCAAGGAC
 GGCTAGACTGTGTGGTGGCCATTGGGAGACCTCTAGGTGAAGTGGTACCCTACAATCCTTGAGAGCTC
 CCTCAAGTGTAGTGCAGGGGAGCAACTGCTGCTCTGGGGTAGGTTACATGGAGGAAGACATGCAGGAAG
 ATGCTTGGCATGACTTTCAGCACCAAAACCAACACAGTGGTGGTGAAGCAGCATCGTGTGCTGCCAGGGG
 GTGGAGTGCTGCTACGGTACTGGAGTCAACCTGCCCGGGGACCTTCTACAAAGAATGTGACAGGCAGCT
 CTTTGGACCTCGGGGTGAAATTGTGAGTCCCTCACTGAGCCCAGACGGGAGGAAGGCAGGGACCTGCAGG
 GTCTTCATCAGTGTGGCTCCACAGGCCCGCATTGCCATCCGCGCCCTGGCCAGTGATATGGGCACTGCTT
 CTGAGGGGACCAATGCCAACTATGTCTCGATCAGGGACATCCACAGTCTGAGGACCACAACATTTGGGG
 GCAGCAGGTGCTCTACTGGGAGTCCGAAGGCAGCGAGGCTGAACCTGGAGTTTAGCCCTGGCTTCTGGAG
 GCACATGCCAGTCTCAGGGCGAGTATTGGACCATCTCACCTAGGACATCGGAACAGGACGACAGCCTGG
 CTCTGTCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001001322
Insert Size: 4281 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:	<ol style="list-style-type: none">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:	<u>NM_001001322.2</u> , <u>NP_001001322.1</u>
RefSeq Size:	4580 bp
RefSeq ORF:	4281 bp
Locus ID:	279028
UniProt ID:	<u>Q769J6</u>
Cytogenetics:	2 A3
Gene Summary:	<p>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. In certain mouse strains (C57BL/6, for example) an intracisternal A-type particle (IAP) retrotransposon sequence is located in the intron 23 that causes an alternate splicing event resulting in a shorter transcript variants encoding shorter isoforms. The encoded preproprotein undergoes proteolytic processing to generate an active enzyme that cleaves von Willebrand factor (VWF) in circulating blood. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created using transcript and genomic sequence data from the mouse strain 129/Sv which is different from the reference genome strain (C57BL/6J), and may be expressed only by certain mouse strains as reported in the literature (PMID: 15136581 and 17426255).</p>