

Product datasheet for **MC229576**

Adamts13 (NM_001290463) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts13 (NM_001290463) 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: >MC229576 representing NM_001290463
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCCAGCTTTGCCTGTGGTTGACGTGCCAGCCTTGTATGCTGTCACTGTGTCAGGGAATCCTCACTG
GTGCCATCTTCATTCTGGGCTGTGGGGCTCTCTGACTTCCAGAAGAGTCTTCTTCAAGATCTGGAGCC
CAAGGATGTGTCTTCTACTTTGGCCACCATGCTGCTCCATTACAGGCCATCCTCCCTCTCACCTCCAG
AGACTGAGACGGAGAAGGACTTTGGAGGACATTCTGCACCTGGAACCTCCTGGTAGCTGTGGGCCCGGATG
TTTCCCGGGCTCATCAGGAGGACACAGAACGCTACGTGCTCACTAATCTCAATATCGGGTCAAGACTGTT
GAGAAACCCATCCCTGGGAGTCCAGTTCACGGTGCACCTGGTGAAGCTAATCACCTCTCTGACTCAGAG
AGTACTCCGAATATCACGGCCAACATCACCTCATCCTTGATGAGCGTCTGCGAGTGGAGCCAGACGATCA
ACCCACGATGACAGGGATCCAAGTACGCTGACCTGATTCTCTATATCACAGGTTTGACCTGGAGTT
GCCTGATGGCAACCAGCAGGTTCCGGGTGTCAACCCAGCTGGGAGGTGCCTGCTCCCTTCTCTGGAGTTGC
CTTACTACTGAGGATACTGGCTTTGACCTGGGGTCAACCCATGAGATTGGGCACAGCTTCGGGC
TGGACCATGATGGTGTCCAGGTAGTGGCAGCACCTGCAAGGCCAGTGGCCACGTGATGGCGGCTGATGG
CGCAACACCTACTGGAGGACCCCTGGAGTGGTCTGCCTGCAGCCAAGGCAGTTGCAGCACCTACTCAGC
ACAGGGCAAATGCACTGCTTCCAGGACCCACCTGGGCTGCAGTCAAGACTTACACGGCACAGCTGATGG
CACAGCCTGGCCTCTACTACAGTGCAGATGATCAGTGCCTGTGGCTTTTCGGTTCTGGGGCTGTCCGCTG
CACCTTCTCCAGGGAGGGTCTGGATGTATGCCAGGCCCTGTCTGCCACACAGACCCCTTGACCAAAGC
AGCTGCAGCCGCCTCCTTGTCTCTCTGGATGGGACAGAATGTGGTGTGGAGAAGTGGTGTCCAAGG
CTCGCTGTGCTCCCTAGCTGAGCTGGCTCCTGTGGCTGCAGTACATGGACTGGTCTAGCTGGGGCC
CCATAGTCCCTGCTCCCATCCTGTGGAGAGGTGTGATTACCAGGAGGGTGGTGAACAACCCAGG
CCTGCATTTGGGGACGTGCATGTGTGGGTGAAGACCTCCAGGCTAAGATGTGCAACACGCAGGCTGTG
AGAAGACTCAGCTGGAGTTCATGTCCGAGCAGTGTGCCAGACAGACAGACAACCACTGCAACTTTCCCA
AGGCACTGCCTCCTTCTACCACTGGGATGCTGCTGTGCAGTATAGTCAAGGAGATACCCTGTGCAGACAC
ATGTGCTGGGCTGTTGGAGAAAGCTTATTGTACGCCGTGGGGACAGGTTCTAGATGGGACCCGTTGTG



TGCCAAGTGGTCCTCAGGATGATGGGACCCTAAGCCTCTGTTTGTGGGCAGCTGCAGGACCTTTGGCTG
 TGATGGCAGGATGGACTCCCAGAAGGTTTGGGATGCGTGCCAGGTGTGTGGAGGAGACAACAGCACCTGC
 AGCTCACGGAAATGGTTCTTTACAGCTGGGAGAGCCAGAGAATATGTCACGTTCTTGATTGTTACTCCCA
 ACATGACCAACGCACACATTGTCAACCCGAGGCCCTCTCTTACACACTTGGCGGTGAGGATCCAGGGCCA
 CTACATTGTGGCAGGGAAGACTAGCATCTACCCAACACCACCTACCCTTCCCTTCTGGAGGACTACCGT
 GTGGAATACAGAGTGACTCTCACTGAGGACCAGCTGCCCACTTAGAGGAGATTACATCCGGGGACCCG
 TCCGGGATGACATTGAGATTGAGGTGTACAGACGATATGGAGGAGAATATGGGGATCTTACACACCCAGA
 CATCACCTTTTCTACTTTCAACTGAAGCAGCAGGCAGCCTGGGTATGGACCGCTAAGCGTGGACCCTGC
 TCAGTGAGCTGTGGGGCAGGGCTGCGCTGGGTGACCTACAGCTGCCAGGATCAAGCTCAAGACAAGTGGG
 TAAAGAACGCCAGTGCCAAGGGAGCCACAGCCACCTGCATGGCAAGAGCCTTGTGTCTGCCCCCTG
 CTCCCCATATTGGGTAGCTGGGACTTACGCCATGTAGCGTGTCTTGTGGCGGGGGCCTTCGGGAGCGG
 TCACTGCGCTGTGTAGAGACCAAGATGGCTTCTTAAAGACTGCCACCTGCCCGTGCAGAGCAGTAG
 CCCAGCAGCCAGCAGCAGAAGTGAAAACCTGCAACTCCCAGCCCTGTCCCACCAGGGCGGGTACCCGGA
 GAAGCCAGAACTGCAGGCCCTGCCGCACCGACGAGATGTCAGCTATGCTGGAGCCCTGCTCCAGGAGC
 CTGTGTTCTCAGGCTTGGGTGAGTGGACAACACCATGTCTCTGGGAGAGGAGGCTCCATCCCCGGTGG
 GCAGTGACAAGCCAGGGGCTCAGGCTGAGCATGTGTGGACCCCTCTGGTGGGGCTGTGCTCCATCTTTG
 TGGGAGAGGTCTGAAGGAACTGTATTTCTGTGCATGGATTCTGTCTCAAAAATGCCTGTCCAGGAAGAG
 CTATGCGGCTTGCTAGTAAGCCCCAAGCCGGTGGGAGGTCTGCAGGGCTCGCCCTGTCTGTCTCGGT
 GGGAGACTCAAGTCTTGGCACCCTGCCCGTGACCTGTGGTGGGGGGCAGTGCCACTGTCTGTTCTGTTG
 TGTGCAGCTAGACCGTGGCCACCCGATATCTGTACCTCAAGTGTCTGCCAGTGCCTAAGCCAGGC
 TCCTTCGAGGACTGCAGCCCTGAGCCTTGTCTGTAGATGGAAGTCTGTCCCTTGGCCATGCTCAG
 CCAGCTGTGGCCTTGGCACTGCCACACAAATGGTGGCTGCATGCAGCTTGACCAGGGCCATGACAATGA
 GGTGAATGAAACTTTCTGTAAGGCTCTAGTGGCCCTCAGGCCAGTGTCCCTGCCTCATTGCTGACTGC
 GCATTCGGTGGCACATCAGCCCTGGACAGAGTGTCTGTCTCCTGTGGGGACGTTATTCAGCCCGGC
 ATGACACCTGCCTTGGACCCAGGCCAAGTGCCTGTGCCAGCCAATTTCTGCCAGCACCTGCCAAGCC
 AATGACCGTGAGAGGCTGCTGGGCTGGACCCTGTGCAGGGCAGGAGACCTCCAGCTCACTGCCTCACAAG
 GAAGTACTCTTCCAGTCAGACCCAGGCTGCTGCTACTGTTGCTTCTTGCAGTGGTCCCAGCCCCGAG
 CCCGGACCCACCTTTTCTCAGCCTCCAGTCTCTGGGGCTCCAGGAAAACCTGGAAGAGCATGGTGC
 CTGTGGAAGGCAGTACCTGGAGCCACAGGAACCATTACATGCGAGATCAAGGACGGCTAGACTGTGTG
 GTGGCCATTGGGAGACCTTAGGTGAAGTGGTACCCTACAAATCCTTGAGAGCTCCCTCAAGTGTAGTG
 CAGGGGAGCAACTGCTGCTCTGGGTAGTTCACATGGAGGAAGACATGCAGGAAGATGCCTGGCATGAC
 TTTCAGCACAAAACCAACACAGTGGTGGTGAAGCAGCATCGTGTGCTGCCAGGGGGTGGAGTGTGCTA
 CGGTACTGGAGTCAACCTGCCCGGGGACCTTCTACAAAGAATGTGACAGGCAGCTTTTGGACCTCGGG
 GTGAAATTGTGAGTCCCTCACTGAGCCCAGACGGGAGGAAGGCAGGGACCTGCAGGGTCTTCATCAGTGT
 GGCTCCACAGGCCCGCATTGCCATCCGCGCCCTGGCCAGTGATATGGGCACTGCTTCTGAGGGGACCAAT
 GCCAACTATGTCTCGATCAGGGACATCCACAGTCTGAGGACCACAACATTTTGGGGCAGCAGGTGCTCT
 ACTGGGAGTCCGAAGGCAGCGAGGCTGAACTGGAGTTTAGCCCTGGCTTCTTGGAGGCACATGCCAGTCT
 CCAGGGCGAGTATTGGACCATCTCACCTAGGACATCGGAACAGGACGACAGCCTGGCTCTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001290463

Insert Size:

4197 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	NM_001290463.1 , NP_001277392.1
RefSeq Size:	4496 bp
RefSeq ORF:	4197 bp
Locus ID:	279028
UniProt ID:	Q769J6
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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1. This isoform (2) may undergo proteolytic processing similar to 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>