

Product datasheet for **MC229287**

Adamts13 (NM_001290465) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts13 (NM_001290465) 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: >MC229287 representing NM_001290465
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCCAGCTTTGCCTGTGGTTGACGTGCCAGCCTTGTATGCTGTGTCAGTGTGTCAGAGGAATCCTCACTG
 GTGCCATCTTCATTCTGGGCTGTGGGGCTCTCTGACTTCCAGAAGAGTCTTCTTCAAGATCTGGAGCC
 CAAGGATGTGCTTCTTACTTTGGCCACCATGCTGCTCCATTACAGGCCATCCTCCCTCTCACCTCCAG
 AGACTGAGACGGAGAAGGACTTTGGAGGACATTCTGCACCTGGAACCTCCTGGTAGCTGTGGGCCCGGATG
 TTTCCCGGGCTCATCAGGAGGACACAGAACGCTACGTGCTCACTAATCTCAATATCGGGTCAAGACTGTT
 GAGAAACCCATCCCTGGGAGTCCAGTTCACAGTGCACCTGGTGAAGCTAATCACCTCTCTGACTCAGAG
 AGTACTCCGAATATCACGGCCAACATCACCTCATCCTTGATGAGCGTCTGCGAGTGGAGCCAGACGATCA
 ACCCCACGATGACAGGGATCCAAGTACGCTGACCTGATTCTCTATATCACAGGTTTGACCTGGAGTT
 GCCTGATGGCAACCAGCAGGTTCCGGGTGTACCCAGCTGGGAGGTGCCTGCTCCCTTCTCTGGAGTTGC
 CTTACTACTGAGGATACTGGCTTTGACCTGGGGTACCCATCGCCATGAGATTGGGCACAGCTTCGGGC
 TGGACCATGATGGTGTCCAGGTAGTGGCAGCACCTGCAAGGCCAGTGGCCACGTGATGGCGGCTGATGG
 CGCAACACCTACTGGAGGACCCTGGAGTGGTCTGCCTGCAGCCAAAGGCAGTTGCAGCACCTACTCAGC
 ACAGGGCAAATGCACTGCTTCCAGGACCACCTGGGCTGCAGTACAGGACTTACACGGCACAGCTGATGG
 CACAGCCTGGCCTCTACTACAGTGCAGATGATCAGTGCCTGTGGCTTTTCGGTTCTGGGGCTGTCGCCTG
 CACCTTCTCCAGGGAGGGTCTGGATGTATGCCAGGCCCTGCTGCTGCCACACAGACCCCTTGGACCAAAGC
 AGCTGCAGCCGCCTCCTTGTCTCTCTGGATGGGACAGAATGTGGTGTGGAGAAGTGGTGTCCAAGG
 CTCGCTGTCGCTCCCTAGCTGAGCTGGCTCCTGTGGCTGCAGTACATGGACTGGTCTAGCTGGGGCC
 CCATAGTCCCTGCTCCCATCCTGTGGAGAGGTGTGATTACCAGGAGGGTGGTGAACAACCCAGG
 CCTGCATTTGGGGACGTGCATGTGTGGGTGAAGACCTCCAGGCTAAGATGTGCAACACGCAGGCTTGTG
 AGAAGACTCAGCTGGAGTTCATGTCCGAGCAGTGTGCCAGACAGACAGACAACCACTGCAACTTTCCCA
 AGGCACTGCCTCCTTCTACCACTGGGATGCTGCTGTGCAGTATAGTCAAGGAGATACCCTGTGCAGACAC
 ATGTGCTGGGCTGTTGGAGAAAGCTTATTGTCAGCCGTGGGGACAGGTTCTTAGATGGGACCCGTTGTG



TGCCAAGTGGTCCTCAGGATGATGGGACCCTAAGCCTCTGTTTGTGGGCAGCTGCAGGACCTTTGGCTG
 TGATGGCAGGATGGACTCCCAGAAGTTTGGGATGCGTGCCAGGTGTGTGGAGGAGACAACAGCACCTGC
 AGCTCACGGAATGGTTCTTTACAGCTGGGAGAGCCAGAGAATATGTCACGTTTCTGATTGTTACTCCCA
 ACATGACCAACGCACACATTGTCAACCCGAGGCCCTCTTTCACACACTTGGGTGAGATGCCAGAGGATCC
 TTCCTTGTACTTAGCCACTGATTTCTTAGTCTTCGAGATGCCTCCACCCCTAACACCTGGTGCCTGGTGG
 GAGAAACCCAACCTCCCAGACCCCTTAGAGCTGCTACACTCACAGCTAAGCTTATCCCAGGGAAGGTGT
 ACAGACGATATGGAGGAGAATATGGGGATCTTACACACCCAGACATCACCTTTTCTACTTTCAACTGAA
 GCAGCAGGCAGCCTGGGTATGGACCGCTAAGCGTGGACCCTGCTCAGTGAGCTGTGGGGCAGGGCTGCGC
 TGGGTGACCTACAGCTGCCAGGATCAAGCTCAAGACAAGTGGGTAAAGAACGCCAGTGCCAAGGGAGCC
 CACAGCCACCTGCATGGCAAGAGCCTTGTGTCTGTGCCCTGCTCCCCATATTGGGTAGCTGGGGACTT
 CAGCCCATGTAGCGTGTCTTGTGGCGGGGCTTCGGGAGCGGTCACTGCGCTGTGTAGAGACCCAAGAT
 GGCTTCTTAAAGACACTGCCACCTGCCCGGTGCAGAGCAGTAGCCAGCAGCCAGCAGCAGAAGTGGAAA
 ACTGCAACTCCCAGCCCTGTCCCACCAGGTGGGAGGTGTCAGACCCTGGCCCTTGCATGTCATCTGCCTG
 TGAGGCAGGTCTGGACTCAAGGAATGTGACATGTGTGTCAGGGCGGGTACCCGGAGAAGCCAGAACT
 GCAGGCCCTGCCGACCGACGAGATGTCAGCTATGCTGGAGCCCTGCTCCAGGAGCCTGTGTTCTCCAG
 GCTTGGGTGAGGTGGACAACACCATGTCTCTGGGAGAGGAGGCTCCATCCCCGGTGGGCAGTGACAAGCC
 AGGGGCTCAGGCTGAGCATGTGTGGACCCTCTGGTGGGGCTGTGCTCCATCTCTTGTGGGAGAGGTCTG
 AAGGAACTGTATTTCTGTGCATGGATTCTGCTCTCAAAATGCCTGTCCAGGAAGAGCTATGCGGCTTGG
 CTAGTAAGCCCCCAAGCCGGTGGGAGGTCTGCAGGGCTCGCCCTGTCTGCTCGGTGGGAGACTCAAGT
 CTTGGCACCGTGGCCGGTACCTGTGGTGGGGGCGAGTGCCACTGTCTGTTCTGTTGTGTGCAGCTAGAC
 CGTGGCCACCCGATATCTGTACCTCACTCAAGTGCTCGCCAGTGCCTAAGCCAGGCTCCTTCGAGGACT
 GCAGCCCTGAGCCTTGTCTGCTAGGGCACTAGTGTGGGAAGCCGCCCCACATTGCGCCGCACAAGATG
 GCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001290465

Insert Size:

3087 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:

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_001290465.1](#), [NP_001277394.1](#)

RefSeq Size: 3447 bp

RefSeq ORF: 3087 bp

Locus ID: 279028

Cytogenetics: 2 A3

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. 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] Transcript Variant: This variant (IAP-b) uses an alternate in-frame splice site and lacks an alternate in-frame exon in the central coding region, and it also lacks seven 3' exons but instead contains an alternate 3' terminal exon and thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (IAP-b) has a distinct C-terminus and is shorter than isoform 1. This isoform (IAP-b) may undergo proteolytic processing similar to isoform 1.