

Product datasheet for **MC224437**

Adamts20 (NM_001164785) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts20 (NM_001164785) Mouse Untagged Clone
Tag: Tag Free
Symbol: Adamts20
Synonyms: Adamst20; ADAMTS; bt
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224437 representing NM_001164785
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGGTGGCCAAGTGGCTGACCGGGTGTCTGCCCCGATCTCGCTCCTTCTCACTGGGTCTGGGAAG
 TTCGTTTCCACCCACGACAGGAAGCCCTGGTGAAGACTCTGGCCTCTACGAAGTGGTACCCCCACGCG
 GGTC AATGAGTTCGAGACGTGTTTCCCAGAACCGGCATTTAGCCGGAAGAAACGTAGCTCCGGGGTG
 CCGGAGCCTCCTCCGTTACAGACCCACTACCGAATCAGCGCCTACGGGCAGCTCTTCCAGCTGAACCTGA
 GCGCTGATGCGGCCTTCTGGCTGCAGGCTACACTGAGGTGCACTTGGGGACCCCGGTACCTGGACCAGG
 CGGGCGCAGCACGGAGTCCCCAGACCTGCGCCACTGTTTCTACCGTGGCCAGGTCAACGCGCAGAGGAC
 CACTGCTGTCTTCACTCTCTGTGGAGGACTGATGGGGACATTCAAAGCAAATGATGGGGAGTATTTCT
 TAGAACAGTCTGAGGGCCGATGGGAGTGCATGACGATGACCACAACAAGCCACATCTGATCTACAG
 ACAGGAATTAAGAGGAACTCCTTTGCGCGGTCTACAAGCCTTGTGAAGTTTCAGAAAACAAATGGAG
 AAACTGCTTTGCCCTCTCAGAGCTCCAGAAACACGACTGGAGATGTTGATATCGAAGGAAGCCGGTGT
 TCAGATTGGAAGCGAACGGAGCCAGTACATTCCAGGAATAAGCGTTTTTTATCATACCAAGATACGT
 GGAAGTTATGGTTACAGCCGATGCTAAGATGGTTACCATCATGGGCAGAAATTTGCAGCACTATGTTCTG
 AACTGATGTCGATTGTTGCTGCAATCTACAAGGATTCCAGCATTGGGAACCTTATCAATATAGTGATTG
 TGAAATTAGTTGTGATTCACAGTGAACAGGAAGGACCAGTGATCAGTTTTAACGCAGCCACCACGTTACG
 CACTTTTGTATGGCAACAGAGTCAAGATGTCCCGGATGATGCTACCCCTCCACCATGACTGCT
 GTCCTCATCACTAGGGAAGACATTTGCGGAGCTAAAGAGAAATGCGACACGTTAGGCTTAGCAGAGCTAG
 GCACCTGTGTGATCCTTACGGAGCTGCTCCATTAGCGAAGAGAACGGGCTGAGCGCCGCTTCCACAT
 CGCCATGAGCTTGGACACGTGTTAATGTTCCACACGACGACGCTTTAAATGTAAGAAGCCGGAATT
 AAACATCAGTATCAGTCATGGCCCCGACTCTAAATTACCACACGAGTCTTGGACTGGTCAGCATGCA
 GTCAGAAGCATATCACAGAATTTCTAGACTGCTGATGGAGAATGCCTTCTTGACAAACCAACCGGGAG
 AACATATGACCTGTCTCACAGCTTCCGGGCTCCGTGTACGATGGGAACAGGCAGTGTGAGCTCATGTTT
 GGCCCTGGATACAAGTGTGCCCTACTTGAAGCACTGCCGACGCTGTGGTGCACGAGTGCAGAAGGCG



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TCCACAAGGGCTGTCGCACACAGCACATGCCGCTGGCAGATGGGACGAGCTGTGGTCCCAGGATGCACTG
 CCACCGTGGGCTGTGTGACCAGGGACATGGAGACCCGTCTGTGGATGGCGAGTGGGGACCATGGGGA
 CCCTACAGCTCGTGTCAAGGACATGCGGAGGTGGAATCAAGAGCACAGCCCGGCTCTGTGACCGGCCCC
 AGCCACGAAACGGAGGAAGTACTGTGTGGGCCGAGGATGAAATTTTCGATCATGTAATACTGATTCATG
 TCCAAAAGGCAAGCGAGACTTCCGAGAAAAGCAATGCTCCGACTTCGACGGTAAACATTTTCGACATCAAC
 GGCTCCCCCAATGTGAGGTGGCTCCGAAGTACAGCGGGATTGCCGTAAAAGATCGTGTAAACTCT
 ATTGCCGGTTCGCTGGGACTACCACTTCTACCAGCTGAAGGACAGAGTGTGATGGGACACCCCTGTGG
 GACGAAAATAACGACATCTGTGTCAGGGCCTCTGTCGGCAAGCTGGCTGTGATCACGTGTAAACTCC
 AAGGCCAAGAGAGACAAGTGTGGAGTGTGTGGTGGTACAACTCTTCGTGCCAGACCCCTGCCAGGTGTCT
 TCAACAGTGCCATTACGGTTACAATGTGGTTGTAAGATCCCTGCGGGGGCTACAAACATTGAAATCCT
 TCAGCACAGCTATTCTGGAAGACCAGAAGATGACAATACTCTCGATTATCTGACACTCAAGGAACTTT
 CTCCTGAATGAAACTTTGTTGTAAGTATGGCGAAGAAAGAGATCAACATCCAGGGTGTGTTTTCGAAT
 ACAGCGGGTCAAACAACCGATTGAAAGAATTAACAGCACGGACCGGCTGGAGGCGGAGCTGTTCTGCA
 GGTGTTGTGTGGGTAATTTATAACAACCTGACGTGCGCTATTCCTTCAACATCCCATTTGAGGAGAGG
 AGCAATCTGTTCTCCTGGGATCCATACGGGCCGTGGCAAGACTGTACAAAATGTCCAAGTCTTCATA
 GAAGAAAATGCTGCTCCGTAAAGAGCGACCATGCAGTTGTATCTGACCACAATTTGTGCCACTTACC
 GATGCCACTGTTTGTGACTGAAAAGTGAATATGGACTGTGAACTCAGGTGGCACATCATTGGGAAAAGC
 GACTGCTCATCCAGTGTGGCAAGGATACAGAACCCTAGACGTTCACTGCATGAAGTACTCGGTTTCATA
 AAGGACAGGCTGTCCAGTAGGAGATCAGTACTGTGGTACCAGCTCAAGCCTCCAGCCGAGAGCCATG
 CCATGGCAGCTGTGTTTTGACAAGGTGGCATTATTCAGAGTGGTCCCAGTGTCTAGGAGTTGTGGCGGC
 GGTGACAAGACTCGGGAATCCTACTGCGTAAATGGCTTTGGCCACCGCCTGTGAAAGCGAGTGTGGG
 AGCTTCCGCGGGTGGTGTGGAGAACTGCAATGAATTTCCGTGTCCAGCTGGGCAACGAGTGAAGTGGAG
 TGAGTCTCCTGTCACATGTGAAAAGGAATGAAGCAGCGACAGGTTTGGTGTGAGTGTGAAAGACCC
 ATGAGGGATGGTTCTGTAAATGCCAGTACCAAGCCGAGTCGCTGAGACCCTGTGAGCTCCGTGCGTGCG
 CTTCTTGGCATGTAGGACCGTGGGGTCTTGCACGGCCACCTGTGGACATGGATATCAGATGCGTGTGT
 TAAGTGTATCAGTGAGATATTTGGCACCATGCTAGATGACAGAGAGTGCCCGCAAGCCAGCCGGCCAAGT
 GACAGACAGGACTGTATATTGGCACCTTGCTGGCTATTCAGAAAGTGGGGCCACCTCCTTACCAGCCA
 TTCCCCTGGGAAGGGCAGCACAGTGGGCCATGGATCGTGGACCCCATGCTCTGTGCTGTGGAAGAGG
 CAGTCAGGCCCTTATGTGAGCTGCCGGATGCTCATGATGAAGTGGCAGATGAGTCGAATTTGCCCCAC
 TTGCTCGACCTGCTGCGGTGTCTCTGCTTCAGCCCTTGTGGAGAGTGGCAAGCAGGGGACTGGTCAC
 CATGTTACGCCTCCTGTGGACATGGGAAAACCACCCGACGTGTTTTATGCGTGAACCTACCACCACTGGT
 CGATGAGAGTTACTGTGACCCGGAAGCCGCTCCTGTGACTGAACAAGAATGTAGCCTGGCAGCCTGCCCA
 CCCTTATACAGCCGAGCTCCCAGCTCCTCTGAGCAGCCAAGCCACGTTCCCAGCAGAAATGTTCCATTAA
 CTCACAAACCAGGAGAGAATCAAGATCAGGGGGCCAGCTGTCAATCAGAGGAAACCAGTGGAGAACAGG
 CCCTTGGGGAGCATGCTCCAGAAGCTGCGCCGGTGGTCTTCAGCACAGGGCTGTGGTCTGCCAGGATGAA
 GACGGGCGAAGCGCTACTTCTGTGATGGGTCTCCAAGCCCCAGAGTCAAGGCACTGTGGCTCCGGAC
 CTTGTCCGCACTGGAATTTATGGGACTGGGAGAAATGCACACAAACCTGTGGTGGAGGGTAAAAACAAG
 ATTTGTGATCTGCAGTTTCCCAATGGCCAAATGACACAGGAACACAGCTGTGAACTGCCAAGCCACCT
 AGCATGATGCAGTGTACCTGCACGCTGCCCTGAAGATGTGCTGTTATCGGGGACCATGGAAGTCGG
 TACGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001164785
 Insert Size: 4278 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_001164785.1</u> , <u>NP_001158257.1</u>
RefSeq Size:	6988 bp
RefSeq ORF:	4278 bp
Locus ID:	223838
Cytogenetics:	15 48.2 cM
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. The encoded preproprotein undergoes proteolytic processing to generate an active protease. Certain mutations in this gene cause defective development of neural crest-derived melanoblasts resulting in a "belted" phenotype that is characterized by white spots in the lumbar region. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 1. This isoform (2) may undergo proteolytic processing similar to 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.</p>