

Product datasheet for **MC225029**

Adamts20 (NM_177431) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts20 (NM_177431) 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: >MC225029 representing NM_177431
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGGTGGCCAAGTGGCTGACCGGGTGTCTGCCGATCTCGCTCCTTCTCACTGGGTCTGGGAAG
 TTCGTTCCACCCACGACAGGAAGCCCTGGTGAAGACTCTGGCCTCTACGAAGTGGTACCCCCACGCG
 GGTCAATGAGTTCGAGACGTGTTTCCCAGAACCGGCATTTACGCCGGAAGAAACGTAGCTCCGGGGT
 CCGGAGCCTCCTCCGTTACAGACCCACTACCGAATCAGCGCCTACGGGCAGCTCTTCCAGCTGAACCTGA
 GCGCTGATGCGGCCTTCTGGCTGCAGGCTACACTGAGGTGCACTTGGGGACCCCGGTACCTGGACCAGG
 CGGGCGCAGCACGGAGTCCCCAGACCTGCGCCACTGTTTCTACCGTGGCCAGGTCAACGCGCAGAGGAC
 CACTGCTGTCTTCACTCTCTGTGGAGGACTGATGGGGACATTCAAAGCAAATGATGGGGAGTATTTCT
 TAGAACCAGTCTGAGGGCCGATGGGAGTGCATGACGATGACCACAACAAGCCACATCTGATCTACAG
 ACAGGAATTAAGAGGAACCTCTTGGCGGTCTCACAAGCCTTGTGAAGTTTCAGAAAAACAAATGGAG
 AAACTGCTTGGCCCTCAGAGCTCCAGAAACACGACTGGAGATGTTGATATCGAAGAGGAAGCGGTGT
 TCAGATTGGAAGGCGAACGGAGCCAGTTACATTCCAGGAATAAGCGTTTTTATCATCCCAAGATACGT
 GGAAGTTATGGTTACAGCCGATGCTAAGATGGTTACCATCATGGGCAGAAATTCAGCACTATGTTCTG
 AACTGATGTCGATTGTTGCTGCAATCTACAAGGATTCCAGCATTGGGAACCTTATCAATATAGTGATTG
 TGAAATTAGTTGTGATTCACAGTGAACAGGAAGGACCAGTGATCAGTTTTAACGCAGCCACCACGTTACG
 CACTTTTGTATGGCAACAGAGTCAGAAATGTCCCGGATGATGCTACCCCTCCACCATGACTGCT
 GTCCTCATCACTAGGGAAGACATTTGCGGAGCTAAAGAGAAATGCGACACGTTAGGCTTAGCAGAGCTAG
 GCACCTGTGTGATCCTCACGGAGCTGCTCCATTAGCGAAGAGAACGGGCTGAGCGCCGCTTCCACAT
 CGCCATGAGCTTGGACACGTGTTAATGTTCCACACGACGACGCTTTAAATGTAAGAAGCCGGAATT
 AAACATCAGTATCAGTCATGGCCCCGACTCTAAATTACCACACGAGTCTTGGACTGGTCAGCATGCA
 GTCAGAAGCATATCACAGAATTTCTAGACTGTCATGGAGAATGCCTTCTTGACAAACCAACCGGGAG
 AACATATGACCTGTCTCCACAGCTTCCGGGCTCCGTGTACGATGGGAACAGGCAGTGTGAGCTCATGTT
 GGCCCTGGATACAAGTGTGCCCTACTTGAAGCACTGCCGACGTCTGTGGTGCACGAGTGCAGAAGGCG



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TCCACAAGGGCTGTCGCACACAGCACATGCCGCTGGCAGATGGGACGAGCTGTGGTCCCAGGATGCACTG
 CCACCGTGGGCTGTGTGACCAGGGACATGGAGACCCGTCCTGTGGATGGCGAGTGGGGACCATGGGGA
 CCCTACAGCTCGTGTCAAGGACATGCGGAGGTGGAATCAAGAGCACAGCCCGGCTCTGTGACCGGCCCC
 AGCCACGAAACGGAGGAAGTACTGTGTGGGCCGAGGATGAAATTTTCGATCATGTAATACTGATTCATG
 TCCAAAAGGCAAGCGAGACTCCGAGAAAAGCAATGCTCCGACTTCGACGGTAAACATTTTCGACATCAAC
 GGCTCCCCCAATGTGAGGTGGCTCCGAAGTACAGCGGGATTGCCGTAAGATCGTGTAAACTCT
 ATTGCCGGTTCGCTGGACTACCAGTCTACCAGCTGAAGGACAGAGTGTCTGATGGGACACCCGTGG
 GACGAAAATAACGACATCTGTGTCAGGGCCTCTGTCGCAAGCTGGCTGTGATCACGTGTTAAACTCC
 AAGGCCAAGAGAGACAAGTGTGGAGTGTGGTGGTGACAACCTTCGTGCCAGACCCGTGCCAGGTGTCT
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 TCAGCACAGCTATTCTGGAAGACCAGAAGATGACAACATCTCGCATTATCTGACACTCAAGGAACTTT
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 GGTGTTGTGTGGGTAATTTATAACAACCTGACGTGCGCTATTCCTTCAACATCCCCATTGAGGAGAGG
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 GAAGAAAATGCTGCTCCGTAAAGAGCGACCATGCAGTTGTATCTGACCACAATTGTGGCCACTTACC
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 AAGGACAGGCTGTCCCAGTAGGAGATCAGTACTGTGGTACCAGCTCAAGCCTCCCAGCCGAGAGCCATG
 CCATGGCAGCTGTGTTTGTACAAGTGGCATTATTCAGAGTGGTCCCAGTGTCTAGGAGTTGTGGCGGC
 GGTGACAAGACTCGGGAATCCTACTGCGTAAATGGCTTTGGCCACCGCCTGTGAAAGCGAGTGTGGG
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 CTTCTTGGCATGTAGGACCGTGGGGTCTTGCACGGCCACCTGTGGACATGGATATCAGATGCGTGTGT
 TAAGTGTATCAGTGTGATATTTGGCACCATGCTAGATGACAGAGAGTGGCCGCAAGCCAGCCGGCCAAGT
 GACAGACAGGACTGTATATTGGCACCTTGCTGGCTATTCAGAAAGTGGGGCCACCTCCTTACCAGCCA
 TCCCCTGGGAAGGGCAGCACAGTGGGCCATGGATCGTGGACCCATGCTCTGTGCTGTGGAAGAGG
 CAGTCAGGCCCTTATGTGAGCTGCCGGATGCTCATGATGAAGTGGCAGATGAGTCGAATTGTGCCAC
 TTGCTCGACCTGCTGCGGTGTCTCTGCTTCCAGCCCTGTGGAGAGTGGCAAGCAGGGGACTGGTCCAC
 CATGTTACGCTCCTGTGGACATGGGAAAACCACCGACGTGTTTATGCGTGAACCTACCACCACTGGT
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 CCCTTATACAGCCGAGCTCCCAGCTCCTCTGAGCAGCCAAGCCACGTTCCCAGCAGAAATGTTCCATTAA
 CTCACAAACCAGGAGAGAATCAAGATCAGGGGGCCAGCTGTCAATCAGAGGAAACCAGTGGAGAACAGG
 CCCTTGGGGAGCATGCTCCAGAAGCTGCGCCGGTGGTCTTCAGCACAGGGCTGTGGTCTGCCAGGATGAA
 GACGGGCGAAGCGCTACTTCTGTGATGGGTCTCCAAGCCCCAGAGTCAAGGCACTGTGGCTCCGGAC
 CTTGTCCGCACTGGAATTATGGGACTGGGGAATGCACACAAACCTGTGGTGGAGGGTAAAAACAAG
 ATTTGTGATCTGTGAGTTTCCCAATGGCCAAATGACACAGGAACACAGCTGTGAACTGCCAAGCCACCT
 AGCATGATGCAGTGTACCTGCACGCTGCCCTGAAGATGTGCTGATCGGGGACCATGGAAGTGTG
 GCTCAGCTTCTGTGGTAAAGGTGTAAGTACCAGGGAGTTCTTTGTATTGATCAATCCAAAGGAAAT
 AGAAGAAAAATATTGAGTCAATTTGCATAAACCTCGAACTCACAAGCTTGCAGATCGGGACGATGCCCT
 TCATGGAAGGCCAATAAATGGAAGGAGTGTCTGTGACCTGTGGGTGAGGGTGCAGCAGAGGGAGGTGT
 ACTGCAGGCTGAGAGGCACTGGTTCGAGTGTCTGAAGACATGTGTGATCCATCCACCCGGCCTCAGGGCA
 GCGGCAGTGTGGCGTCAAGACTGCATGAGGTACCAGTGGACGACAGGAGACTGGCTAGATTGTTCAACA
 TCGTGTAAAGAAAAAGAGACCTATCGGCTGGTGAATGTGTGAATGAGCAAAACGTACAAGCCAATGAAA
 GTCTCTGTGACCCTTAACGAAGCCGCTTCAATCAAAAAATGCAGGAACCCCTACTGCAAGTACTCGGT
 GGTACAGGAGACTCGTCGAGTGTGCAGGTAACGTGGGTTCACTTCCCACAGAAGATTACATACTGC
 ACTAAGATCCAGTCTCTAAGAAGCATACGTTCCATCAGCTTCGGCCTGTGCTATGGGAATGTCCGG
 TGATACCGTCTCCTCAGGCGTACAAATGCGACCTTAGAAGCTGTCTGCATGTAGCCACTTGGAAAGTGGG
 AAAATGGAGCAAGTGTGCTCAGTAACTTGTGGAATTGGGATAATGGAGAGAAGAGTAGCATGCAGGACTGAG
 AACGGTTGGCCAGTACTTATGTTAAAGCGTTAAAGCCAGATGCCCAAAAGAAATGTTATGCCAATG
 ACTGTAATTAATAACCACCTGCAAGGAACTCCAAGTTACAAACAATGTTACCAAGGATGGTACTATGA

CCTTAACGTCAGGGGAAGAATATTGAAGATCCATTGCTCAGGCATGCAGCTGGAGAACCCTAGAGAATAT
 TTACCACTGGTCAAAAGTGAAGACAACCTTTTCAGAAATATACGGCCTTAGACTTCAAATCCCTATGAAT
 GCCCCTTCAACGGAAGCAGGAGGCCAGACTGTGCGTGTGAAAACGACTACCTACCTGCCGGGTACTACTGT
 TTTTAGCAAAGTGAGAGTGGATCTCGAATCCATGCAAATCAAACGACTACCTACCTGCGGGTACTACTGT
 CTATCTGGAAAGGCAGTTCATTTGCTACAGCTGGGGACTGCTACAGCGCTGCCAGATGCCACAGGGGC
 AGTTCAGCATCACTTAGCAGGAACTGGGATGAAGATATCCAACACAGCAAAGTGGCTCGCTCAGGGGAG
 GTATGCCTCTGTATCATCCACAGGTCCAAGACGGAACCAAAGTCTACGGCAGATGCGGAGGGTTCTGT
 GGAAAGTGCAATTCCTCACATGGCTACGGGGCTCTCAATTCAAGTACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_177431

Insert Size:

5721 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_177431.4](#), [NP_803180.3](#)

RefSeq Size:

6119 bp

RefSeq ORF:

5721 bp

Locus ID:

223838

UniProt ID:

[P59511](#)

Cytogenetics:

15 48.2 cM

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 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]

Transcript Variant: This variant (1) encodes the longest 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.