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Product datasheet for SC304076

ADAMTS7 (NM_014272) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS7 (NM_014272) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAMTS7
Synonyms:	ADAM-TS 7; ADAM-TS7; ADAMTS-7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_014272 edited
ATGCCCGGCGGCCCCAGTCCCCGCAGCCCCGCGCCTTTGCTGCGCCCCCTCCTCCTGCTC
CTCTGCGCTCTGGCTCCCGGCGCCCCCGGACCCGCACCAGGACGTGCAACCGAGGGCCGG
GCGGCACTGGACATCGTGCACCCGGTTCGAGTCGACGCGGGGGGCTCCTTCCTGTCCTAC
GAGCTGTGGCCCCGCGCACTGCGCAAGCGGGATGTATCTGTGCGCCGAGACGCGCCCGCC
TTCTACGAGCTACAATACCGCGGGCGCGAGCTGCGCTTCAACCTGACCGCCAATCAGCAC
CTGCTGGCGCCCGGCTTTGTGAGCGAGACGCGGCGGCGCGGCGGCCTGGGCCGCGCGCAC
ATCCGGGCCCACACCCCGGCCTGCCATCTGCTTGGCGAGGTGCAGGACCCTGAGCTCGAG
GGTGGCCTGGCGGCCATCAGCGCCTGCGACGGCCTGAAAGGTGTGTTCCAGCTCTCCAAC
GAGGACTACTTCATTGAGCCCCTGGACAGTGCCCCGGCCCGGCCTGGCCACGCCCAGCCC
CATGTGGTGTACAAGCGTCAGGCCCCGGAGAGGCTGGCACAGCGGGGTGATTCCAGTGCT
CCAAGCACCTGTGGAGTGCAAGTGTACCCAGAGCTGGAGTCTCGACGGGAGCGTTGGGAG
CAGCGGCAGCAGTGGCGGCGGCCACGGCTGAGGCGTCTACACCAGCGGTCGGTCAGCAAA
GAGAAGTGGGTGGAGACCCTGGTGGTAGCTGATGCCAAAATGGTGGAGTACCACGGACAG
CCGCAGGTTGAGAGCTATGTGCTGACCATCATGAACATGGTGGCTGGCCTGTTTCATGAC
CCCAGCATTGGGAACCCCATCCACATCACCATTGTGCGCCTGGTCCTGCTGGAAGATGAG
GAGGAGGACCTAAAGATCATGCACCATGCAGACAACACCCTGAAGAGCTTCTGCAAGTGG
CAGAAAAGCATCAACATGAAGGGGGATGCCCATCCCCTGCACCATGACACTGCCATCCTG
CTCACCAGAAAGGACCTGTGTGCAGCCATGAACCGGCCCTGTGAGACCCTGGGACTGTCC
CATGTGGCGGGCATGTGCCAGCCGCACCGCAGCTGCAGCATCAACGAGGACACGGGCCTG
CCGCTGGCCTTCACTGTAGCCCACGAGCTCGGGCACAGTTTTGGCATTCAGCATGACGGA
AGCGGCAATGACTGTGAGCCCGTTGGGAAACGACCTTTCATCATGTCTCCACAGCTCCTG
TACGACGCCGCTCCCCTCACCTGGTCCCGCTGCAGCCGCCAGTATATCACCAGGTTCCTT
GACCGTGGGTGGGGCCTGTGCCTGGACGACCCTCCTGCCAAGGACATTATCGACTTCCCC
TCGGTGCCACCTGGCGTCCTCTATGATGTAAGCCACCAGTGCCGCCTCCAGTACGGGGCC
TACTCTGCCTTCTGCGAGGACATGGATAATGTCTGCCACACACTCTGGTGCTCTGTGGGG
ACCACCTGTCACTCCAAGCTGGATGCAGCTGTGGACGGCACCCGGTGTGGGGAGAATAAG

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TGGTGTCTCAGTGGGGAGTGCGTACCCGTGGGCTTCCGGCCCGAGGCCGTGGATGGTGGC
TGGTCTGGCTGGAGCGCCTGGTCCATCTGCTCACGGAGCTGTGGCATGGGCGTACAGAGC
GCCGAGCGGCAGTGCACGCAGCCTACGCCCAAATACAAAGGCAGATACTGTGTGGGTGAG
CGCAAGCGCTTCCGCCTCTGCAACCTGCAGGCCTGCCCTGCTGGCCGCCCCTCCTTCCGC
CACGTCCAGTGCAGCCACTTTGACGCTATGCTCTACAAGGGCCAGCTGCACACATGGGTG
CCCGTGGTCAATGACGTGAACCCCTGCGAGCTGCACTGCCGGCCCGCGAATGAGTACTTT
GCCGAGAAGCTGCGGGACGCCGTGGTCGATGGCACCCCCTGCTACCAGGTCCGAGCCAGC
CGGGACCTCTGCATCAACGGCATCTGTAAGAACGTGGGCTGTGACTTCGAGATTGACTCC
GGTGCTATGGAGGACCGCTGTGGTGTGTGCCACGGCAACGGCTCCACCTGCCACACCGTG
AGCGGGACCTTCGAGGAGGCCGAGGGCCTGGGGTATGTGGATGTGGGGCTGATCCCAGCG
GGCGCACGCGAGATCCGCATCCAAGAGGTTGCCGAGGCTGCCAACTTCCTGGCACTGCGG
AGCGAGGACCCGGAGAAGTACTTCCTCAATGGTGGCTGGACCATCCAGTGGAACGGGGAC
TACCAGGTGGCAGGGACCACCTTCACATACGCACGCAGGGGCAACTGGGAGAACCTCACG
TCCCCGGGTCCCACCAAGGAGCCTGTCTGGATCCAGCTGCTGTTCCAGGAGAGCAACCCT
GGGGTGCACTACGAGTACACCATCCACAGGGAGGCAGGTGGCCACGACGAGGTCCCGCCG
CCCGTGTTCTCCTGGCATTATGGGCCCTGGACCAAGTGCACAGTCACCTGCGGCAGAGGT
GTGCAGAGACAGAATGTGTACTGCTTGGAGCGGCAGGCAGGGCCCGTGGACGAGGAGCAC
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GCCAGGTGGTGGGCAGGTGAGTGGCAGCTGTGCTCCAGCTCCTGCGGGCCTGGGGGCCTC
TCCCGCCGGGCCGTGCTCTGCATCCGCAGCGTGGGGCTGGATGAGCAGAGCGCCCTGGAG
CCACCCGCCTGTGAACACCTTCCCCGGCCCCCTACTGAAACCCCTTGCAACCGCCATGTA
CCCTGTCCGGCCACCTGGGCTGTGGGGAACTGGTCTCAGTGCTCAGTGACATGTGGGGAG
GGCACTCAGCGCCGAAATGTCCTCTGCACCAATGACACCGGTGTCCCCTGTGACGAGGCC
CAGCAGCCAGCCAGCGAAGTCACCTGCTCTCTGCCACTCTGTCGGTGGCCCCTGGGCACA
CTGGGCCCTGAAGGCTCAGGCAGCGGCTCCTCCAGCCACGAGCTCTTCAACGAGGCTGAC
TTCATCCCGCACCACCTGGCCCCACGCCCTTCACCCGCCTCATCACCCAAGCCAGGCACC
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GACGACTTCTACTACGACTACAATTTCATCAATTTCCACGAGGATCTGTCCTACGGGCCC
TCTGAGGAGCCCGATCTAGACCTGGCGGGGACAGGGGACCGGACACCCCCACCACACAGC
CATCCTGCTGCGCCCTCCACGGGTAGCCCTGTGCCTGCCACAGAGCCTCCTGCAGCCAAG
GAGGAGGGGGTACTGGGACCTTGGTCCCCGAGCCCTTGGCCTAGCCAGGCCGGCCGCTCC
CCACCCCCACCCTCAGAGCAGACCCCTGGGAACCCTTTGATCAATTTCCTGCCTGAGGAA
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ACTGATGGCCTGCAGACACCTGCCACCCCTGAGAGCCAAAATGATTTCCCAGTTGGCAAG
GACAGCCAGAGCCAGCTGCCCCCTCCATGGCGGGACAGGACCAATGAGGTTTTCAAGGAT
GATGAGGAACCCAAGGGCCGCGGAGCACCCCACCTGCCCCCGAGACCCAGCTCCACGCTG
CCCCCTTTGTCCCCTGTTGGCAGCACCCACTCCTCTCCTAGTCCTGACGTGGCGGAGCTG
TGGACAGGAGGCACAGTGGCCTGGGAGCCAGCTCTGGAGGGTGGCCTGGGGCCTGTGGAC
AGTGAACTGTGGCCCACTGTTGGGGTGGCTTCTCTCCTTCCTCCTCCCATAGCCCCTCTG
CCAGAGATGAAGGTCAGGGACAGTTCCCTGGAGCCGGGGACTCCCTCCTTCCCAACCCCA
GGACCAGGCTCATGGGACCTGCAGACTGTGGCAGTGTGGGGGACCTTCCTCCCCACAACC
CTGACTGGCCTCGGGCACATGCCTGAGCCTGCCCTGAACCCAGGACCCAAGGGTCAGCCT
GAGTCCCTCAGCCCTGAGGTGCCCCTGAGCTCTAGGCTGCTGTCCACACCAGCTTGGGAC
AGCCCCGCCAACAGCCACAGAGTCCCTGAGACCCAGCCGCTGGCTCCCAGCCTGGCTGAA
GCGGGGCCCCCCGCGGACCCGTTGGTTGTCAGGAACGCCGGCTGGCAAGCGGGAAACTGG
AGCGAGTGCTCTACCACCTGTGGCCTGGGTGCGGTCTGGAGGCCGGTGCGCTGTAGCTCC
GGCCGGGATGAGGACTGCGCCCCCGCTGGCCGGCCCCAGCCTGCCCGCCGCTGCCACCTG
CGGCCCTGTGCCACCTGGCACTCAGGCAACTGGAGTAAGTGCTCCCGCAGCTGCGGCGGA
GGTTCCTCAGTGCGGGACGTGCAGTGTGTGGACACACGGGACCTCCGGCCACTGCGGCCC
TTCCATTGTCAGCCCGGGCCTGCCAAGCCGCCTGCGCACCGGCCCTGCGGGGCCCAGCCC
TGCCTCAGCTGGTACACATCTTCCTGGAGGGAGTGCTCCGAGGCCTGTGGCGGTGGTGAG
CAGCAGCGTCTAGTGACCTGCCCGGAGCCAGGCCTCTGCGAGGAGGCGCTGAGACCCAAC

ACCACCCGGCCCTGCAACACCCACCCCTGCACGCAGTGGGTGGTGGGGCCCTGGGGCCAG
TGCTCAGGCCCCTGTGGTGGTGGTGTCCAGCGGCGCCTGGTCAAGTGTGTCAACACCCAG
ACAGGGCTGCCCGAGGAAGACAGTGACCAGTGTGGCCACGAGGCCTGGCCTGAGAGCTCC
CGGCCGTGTGGCACCGAGGATTGTGAGCCCGTCGAGCCTCCCCGCTGTGAGCGGGACCGC
CTGTCCTTCGGGTTCTGCGAGACGCTGCGCCTACTGGGCCGCTGCCAGCTGCCCACCATC
CGCACCCAGTGCTGCCGCTCGTGCTCTCCGCCCAGCCACGGCGCCCCCTCCCGAGGCCAT
CAGCGGGTTGCCCGCCGCTGA

Restriction Sites: Please inquire

ACCN: NM_014272

Insert Size: 5100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014272.2, NP_055087.2

RefSeq Size: 5502 bp

RefSeq ORF: 5061 bp

Locus ID: 11173

UniProt ID: Q9UKP4

Cytogenetics: 15q25.1

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) family. Members of this family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and may regulate vascular smooth muscle cell (VSMC) migration. Mutations in this gene may be associated with susceptibility to coronary artery disease. [provided by RefSeq, Feb 2016]