

Product datasheet for SC115765

ADAMTS1 (NM_006988) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS1 (NM_006988) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAMTS1
Synonyms:	C3-C5; METH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115765 sequence for NM_006988 edited (data generated by NextGen Sequencing)

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ATGCAGCGAGCTGTGCCGAGGGTTCGGAAGGCGCAAGCTGGGCAGCGACATGGGGAAC
GCGGAGCGGGCTCCGGGTCTCGGAGCTTTGGGCCAGTACCCACGCTGCTGCTGCTCGCC
GCGGCGCTACTGGCCGTGTCGGACGCACTCGGGCGCCCTCCGAGGAGGACGAGGAGCTA
GTGGTGCCGAGCTGGAGCGCGCCCGGACACGGGACCACGCGCTCCGCTGCACGCC
TTTGACCAGCAGCTGGATCTGGAGCTGCGGCCCGACAGCAGCTTTTTGGCGCCGGCTTC
ACGCTCCAGAACGTGGGGCGCAAATCCGGTCCGAGACGCGCTTCCGAAAACCGACCTG
GCGCACTGCTTCTACTCCGGCACCGTGAATGGCGATCCCAGCTCGGCTGCCGCCCTCAGC
CTCTGCGAGGGCGTGCAGCGCGCTTCTACCTGCTGGGGAGGCGTATTTTCATCCAGCCG
CTGCCCGCGCCAGCGAGCGCTCGCCACCGCCGCCAGGGGAGAAGCCGCCGGCACCA
CTACAGTTCCACCTCCTGCGGCGGAATCGGCAGGGCGACGTGCGCGGCAGGTGCGGGGTC
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GAGGGCGAGGACGAAGGGGCTCAGTGGTCGCCGAGGACCCGGCACTGCAAGGCGTAGGA
CAGCCACAGGAACTGGAAGCATAAGAAAGAAGCGATTTGTGTCCAGTCAACCGCTATGTG
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AATGGTGTGAACCAGGATTCCCACATGATGGCGTCAATGCTTTCCAACCTGGACCACAGC
CAGCCTTGGTCTCCTTGCAGTGCCTACATGATTACATATTTCTGGATAATGGTCATGGG
GAATGTTTGTGATGACAAGCCTCAGAATCCCATACAGCTCCAGGGCATCTCCCTGGCACC
TCGTACGATGCCAACCGCAGTGCCAGTTACATTTGGGGAGGACTCCAACACTGCCCC

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GATGCAGCCAGCACATGTAGCACCTTGTGGTGTACCGGCACCTCTGGTGGGGTGCTGGT
 TGTCAAACCAAACACTTCCCCTGGGCGGATGGCACCAGCTGTGGAGAAGGGAAATGGTGT
 ATCAACGGCAAGTGTGTGAACAAAACCGACAGAAAGCATTTTGTACGCCTTTTCATGGA
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 GGGGTGTTATCTCATGAGAGCTGTGATCCTTTAAAGAAACCTAAACATTTTCATAGACTTT
 TGCACAATGGCAGAATGCAGTTAA

Clone variation with respect to NM_006988.3
 96 c=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006988 unedited
 GGGTGGTTAGGAACCGCCTTCATNAGAGCGGACGCCCAATCGGCACGAGCGGCTCCGAT
 CCAGGGGCTATTGCAAAGCCAGGGCGCGCTACCGGACGGAGAGGGGAGAGCCCTGAGCAG
 AGTGAGCAACATCGCAGCCAAGGCGGAGGCCGAAGAGGGGCGCCAGGCACCAATCTCCGC
 GTTGCCTCAGCCCCGAGGCGCCCCAAAGTGCTTCNTGTCCCAGCAGAGCCACTCTGCCT
 GCGCCTGCCTCTCAGTGTCTCCAACCTTTCGCTGGAAGAAAAACTTCCCGCGCGCCGCA
 GAACTGCAGCGCCTCCTTTTGTGACTCCGGGAGCTTCGGCTGTAGCCGGCTCTGCGCGC
 CCTTCCAACGAATAATAGAAATGTCAATTTTAAACATCCAGAGCAGGCCAACGAGGCTT
 TGCTCTCCCGACCCGAATAAAGGTCCCTCGCTCCGTGCGCTGCTACGAGCGGAGTCTCC
 TGGGGCTCCAATGCAGCGAGCTGTGCCGAGGGGTTTCGGAAGGCGCAAGCTGGGCAGCGA
 CATGGGGAACGCGGAGCGGGCTCCGGGGTCTCGGAGCTTTGGGCCAGTACCCACGCTGCT
 GCTGCTCGCCGCGGCGCTACTGGCCGTGTCGGACGCACTCGGGGCCCCCTCCGAGGAGGA
 CGAGGAGCTAGTGGTGCAGGAGCTGGAGCGCGCCCCGGGACACGGGACCACGCGCCTCCG
 CCTGCACGCTTTGACCAGCAGCTGGATCTGGAGCTGCGGCCGACAGCAGCTTTTGGCC
 GCCCGGCTTACGCTCCAGAACGTGGGGCGCAAATCCGGGTCCGAGACGCGCTTCCGGA
 AACCGACTGTGCACTGCCTCTACTTCGTACCCGTGAATGGNGATCCCAGCTCGGCTGG
 CGGCCACGCTCTGCGAGACGGGCGGNGCCTNCTACCTGCTGGGGAGCGGATTATC
 CACCTGCGGCC

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006988 unedited CCAGTGGGGCCATAGTGGGATGGTCAACTTACCAGGTCCAGAAAAGCACTGGGGAAGGGG TCACAGGGATGCCACCCGGGCTCTGTTGCAGGAAAAGCTATGACCGCGGCCGCAATCTAA AGTCAAGTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTATATCCCAAAGG GTTCTTTTTTTTCTTAAAACATATATTGTATAAATCCCCTTTTTTAAAACCCCTCCACA AAAGCGATATTTTTTAAAGTTTTTCCATTAATAAATAAATGTCTAAAAATAAATTTGTT ATTAAGGCATTTTTTACAAACTTTTGGCCTTTTTGGAAGGAACCCCAACCCAATCCTT ATAAAGTCCATGTTATTTATAGTAACATTTTTTACTTTTTCCGTTTGGAATAAATCTTTT TCTCCAAAAAACTTAAACAACTTTCCCAAGGATACCACTGTTGGACCCTGTTGGAA ATGGACCTGGTACCCCTAAAAAGCCTCCCAACCAAAAAAAAGTGATCTCAATGTCCCA AACCTGGGGGACCCTGTTCTACACACCCTATTTTTTTCCGGCCTTTCACCCCTGGGG GGATTGTCCCGATTTTCAAGAAACACAATTTACTTTTTTACTTCCCTATCCCAAACCAG GGTTTCTTGGTAAAAAATAAATTTGGAGGTACCAACCTATTGGGGCCCTTAAAC TTTTACAAAAACAAAAGCTTACCCTTTTTTCCATGAAAACCTTTCATGCACTGAAT AAAACCTGGGAGTTTTTTTTTACCCCAATGGATTACCCAATAAAGCCCGGGTGGCC CAAAATAGGAAAAGAAAACCTTTGCTTTTTTACGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006988
Insert Size:	5000 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_006988.3 , NP_008919.3
RefSeq Size:	4670 bp

RefSeq ORF: 2904 bp

Locus ID: 9510

UniProt ID: [Q9UHI8](#)

Cytogenetics: 21q21.3

Domains: tsp_1, Reprolysin, Pep_M12B_propep, ACR

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) protein family. Members of the 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 protein encoded by this gene contains two disintegrin loops and three C-terminal TS motifs and has anti-angiogenic activity. The expression of this gene may be associated with various inflammatory processes as well as development of cancer cachexia. This gene is likely to be necessary for normal growth, fertility, and organ morphology and function. [provided by RefSeq, Jul 2008]