

Product datasheet for **RC205984**

ADAMTS1 (NM_006988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS1 (NM_006988) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAMTS1
Synonyms:	C3-C5; METH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205984 representing NM_006988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACGAGCTGTGCCGAGGGTTTCGGAAGGCACAAGCTGGCAGCGACATGGGAACCGGAGCGGG
 CTCGGGGTCTCGGAGCTTTGGGCCGTACCCAGCTGCTGCTGCTCGCCGCGGCCCTACTGGCCGTGTC
 GGACGCACTCGGGCGCCCTCCGAGGAGACGAGGAGCTAGTGGTCCGGAGCTGGAGCGCGCCCGGGA
 CACGGGACCACGCGCTCCGCTGCACGCTTTGACCAGCAGCTGGATCTGGAGCTGCGGCCGACAGCA
 GCTTTTTGGCGCCGGCTTACGCTCCAGAAGCTGGGGCGCAAATCCGGGTCGAGACGCGCTTCCGGA
 AACCGACTGGCGCACTGCTTCTACTCCGGCACCGTGAATGGCGATCCCAGCTCGCTGCCGCCCTCAGC
 CTCTGCGAGGGCGTGCAGCGCCCTTCTACCTGCTGGGGAGGCGTATTTCCAGCCGCTGCCGCCG
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 CCGCTATGTGAAACCATGCTTGTGGCAGACAGTCGATGGCAGAATCCACGGCAGTGGTCAAAGCAT
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 GAGTTTTCAAAGCTTCTTTGGGAGTGGGCTGCGGTGGAATGGATTCCCAAGTACGCTGGCGTCTCAC
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 ACAAAGGTGTTGTCTTGGAGTACAGCGCTCCTCTGCGGCATTGAAAAGAATTCCGAGCTTTAGCCCTCT
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 TTCGTAAGAAGAAGAAGGAATCTTCAATGCTATCCCCACTTTTTCAGCATGGGTATTGAAGAGTGGG
 GCGAATGTTCTAAGTCATGTGAATGGGTTGGCAGAGAAGACTGGTAGAATGCCGAGACATTAATGGACA
 GCCTGCTCCGAGTGTGCAAAGGAAGTGAAGCCAGCCAGCAGACCTTGTGCAGACCATCCCTGCCCC
 CAGTGGCAGCTGGGGAGTGGTCATCATGTTCTAAGACCTGTGGGAAGGGTTACAAAAAAGAAGCTTGA
 AGTGTCTGTCCATGATGGAGGGTGTATCTCATGAGAGCTGTGATCCTTTAAAGAAACCTAAACATTT
 CATAGACTTTTGACAATGGCAGAATGCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205984 representing NM_006988
 Red=Cloning site Green=Tags(s)

MQRAVPEGFGRRLGSDMGNAERAPGSRSGPVPPTLLLLAAALLAVSDALGRPSEDEELVPELERAPG
 HGTTTRLRLHAFDQQLDLELRPDSSFLAPGFTLQNVGRKSGSETPLPETDLAHC FYSGTVNGDPSSAAALS
 LCEGVRGAFYLLGEAYFIQPLPAASERLATAAPGEKPPAPLQFHLLRRNRQGDVGGTCGVVDDEPRPTGK
 AETEDEDEGTEGEDEGPQWSPQDPALQGVGQPTGTGSIRKKRFVSSHRYVETMLVADQSMAEFHGSLKH
 YLLTLFVVAARLYKHPSIRNSVSLVVKILVIHDEQKGPVTSNAALTLRNF CNWQKQHNPSPDRDAEHY
 DTAIFLTRQDLCGSQTCDTLGMADVGTVCPSRSCSVIEDDGLQAAFTTAHELGHVFNMPHDDAKQCASL
 NGVNQDSHMMASMLSNLDHSQPWSPCSAYMITSFLDNGHGECLMDKPQNPIQLPGDLPGTSYDANRQCQF
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 SWGMWGPWGDCSRTC GGGVQYTMRECDNPVPKNGGKYCEGKRVRYRSCNLEDCPDNNGKTFREEQCEAHN
 EFSKASFGSGPAVEWIPKYAGVSPKDRCKLICQAKGIGYFVLPKVVDGTPCSTDST SVCVQGQCVKAG
 CDRIIDSKKKFKDCGVCNGNSTCKKISGVS TSAKPGYHDIIT IPTGATNIEVKQRNQRGSRNNGSFLAI
 KAADGTYILNGDYTLSTLEQDIMYKGVVLRYSGSSAALERIRSF SPLKEPLTIQVLT VGNALRPKIKYTY
 FVKKKKESFNAIPTFSAWVIEEWGEC SKSCELGWQRRLVECRDINGQPA SECAKEVKPASTRPCADHPCP
 QWQLGEWSSCSKTCGKGYKRS LKCLSHDGGVLSHESCDPLKPKKHFIDFCTMAECS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3154_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

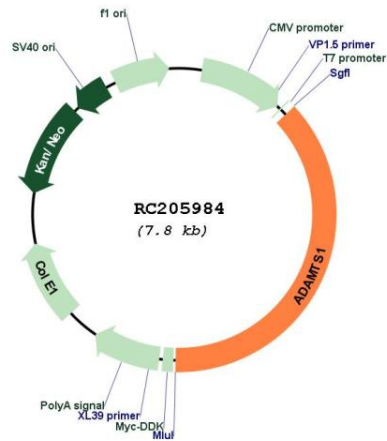
ACCN: NM_006988

ORF Size: 2901 bp

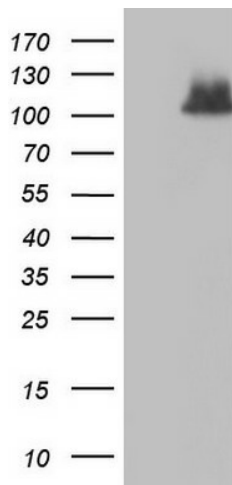
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006988.5
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
MW:	105.39 kDa

Gene Summary:

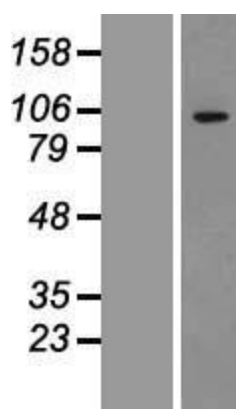
This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) 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]

Product images:


Circular map for RC205984



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADAMTS1 (Cat# RC205984, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADAMTS1 (Cat# [TA804585]). Positive lysates [LY416271] (100ug) and [LC416271] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416271]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205984 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).