

Product datasheet for **RG205984**

ADAMTS1 (NM_006988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS1 (NM_006988) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAMTS1
Synonyms:	C3-C5; METH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205984 representing NM_006988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGAGCTGTGCCGAGGGTTTCGGAAGGCACAAGCTGGCAGCGACATGGGAACCGGAGCGGG
 CTCGGGGTCTCGGAGCTTTGGGCCGTACCCAGCTGCTGCTGCTCGCCGCGGCCCTACTGGCCGTGTC
 GGACGCACTCGGGCGCCCTCCGAGGAGACGAGGAGCTAGTGGTGCAGGAGCTGGAGCGCGCCCGGGA
 CACGGGACCACGCGCTCCGCTGCACGCTTTGACCAGCAGCTGGATCTGGAGCTGCGGCCGACAGCA
 GCTTTTTGGCGCCGGCTTACGCTCCAGAAGCTGGGGCGAAATCCGGGTCGAGACGCGCTTCCGGA
 AACCGACTGGCGCACTGCTTCTACTCCGGCACCGTGAATGGCGATCCCAGCTCGCTGCCGCCCTCAGC
 CTCTGCGAGGGCGTGCAGCGCCCTTCTACCTGCTGGGGAGGCGTATTTCCAGCCGCTGCCGCCG
 CCAGCGAGCGCTCGCCACCGCCCGCCAGGGGAGAAGCCCGCGCACCACTACAGTTCCACCTCCTGCG
 GCGAATCGGCAGGGCGACGTAGCGGGCAGTGGGGGTCTGGACGACGAGCCCGGCCGACTGGGAAA
 GCGGAGACCGAAGACGAGGACGAAGGGACTGAGGGCGAGGACGAAGGGCCCTCAGTGGTCCGCGCAGGACC
 CGGCACTGCAAGGCGTAGGACAGCCACAGGAAGTGAAGCATAAGAAAGAAGCGATTTGTGTCCAGTCA
 CCGCTATGTGAAACCATGCTTGTGGCAGACAGTCGATGGCAGAATCCACGGCAGTGGTCTAAAGCAT
 TACCTTCTCACGTTGTTTTCGGTGGCAGCCAGATTGTACAACACCCAGCATTGTAATTCAGTTAGCC
 TGGTGGTGGTGAAGATCTTGGTCATCCAGATGAACAGAAGGGGGCGGAAGTGACCTCCAATGCTGCCCT
 CACTCTGCGGAATTTTGAACCTGGCAGAAGCAGCACAACCCACCCAGTGACCGGATGCAGAGCACTAT
 GACACAGCAATTTTACCAGACAGGACTTGTGTGGTCCCAGACATGTGATACTCTTGGGATGGCTG
 ATGTTGGAAGTGTGTGATCCGAGCAGAAGCTGCTCCGTCATAGAAGATGATGGTTTACAAGTGCTT
 CACCACGCCCCATGAATTAGGCCACGTGTTAATCATGCCACATGATGATGCAAAGCAGTGTGCCAGCCTT
 AATGGTGTGAACAGGATTTCCACATGATGGCGTCAATGCTTTCCAACCTGGACCACAGCCAGCCTTGGT
 CTCCTTGCACTGCTACATGATTACATATTTCTGGATAATGGTCATGGGGAATGTTTGTGGACAAGCC
 TCAGAATCCCATACAGCTCCAGGCGATCTCCCTGGCACCTCGTACGATGCCAACCGCAGTGCCAGTTT
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 CCTCTGGTGGGTGCTGGTGTCAAACAAACACTTCCCGTGGGCGGATGGCACCAGCTGTGGAGAAGG
 GAAATGGTGTATCAACGGCAAGTGTGTGAACAAAACCGACAGAAAGCATTGATACGCCTTTTCATGGA
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 GGGAAATGTGACAACCCAGTCCCAAAGAATGGAGGGAAGTACTGTGAAGGCAAACGAGTGGCTACAGATC
 CTGTAACCTTGAGGACTGTCCAGACAATATGGAACAACTTTAGAGAGGAACAATGTGAAGCACACAAC
 GAGTTTTCAAAGCTTCCCTTGGGAGTGGGCTGCGGTGGAATGGATTCCCAAGTACGCTGGCGTCTCAC
 CAAAGGACAGGTGCAAGCTCATCTGCCAAGCCAAAGGCATTGGCTACTTCTCGTTTTGCAGCCAAAGT
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 AAAGCTGCTGATGGCACATATATTCTTAATGGTACTACACTTTGTCCACCTTAGAGCAAGACATTATGT
 ACAAAGGTGTTGTCTTGGAGTACAGCGCTCCTCTGCGGCATTGAAAAGAATTTCGAGCTTTAGCCCTCT
 CAAAGAGCCCTTGACCATCCAGGTTCTTACTGTGGCAATGCCCTTCGACCTAAAATTAATACACCTAC
 TTCGTAAGAAGAAGAAGGAATCTTCAATGCTATCCCCACTTTTTCAGCATGGGTATTGAAGAGTGGG
 GCGAATGTTCTAAGTCATGTGAATGGGTTGGCAGAGAAGACTGGTAGAATGCCGAGACATTAATGGACA
 GCCTGCTCCGAGTGTGCAAAGGAAGTGAAGCCAGCCAGCAGACCTTGTGCAGACCATCCCTGCCCC
 CAGTGGCAGCTGGGGAGTGGTCATCATGTTCTAAGACCTGTGGGAAGGGTTACAAAAAAGAAGCTTGA
 AGTGTCTGTCCCATGATGGAGGGTGTATCTCATGAGAGCTGTGATCCTTTAAAGAAACCTAAACATTT
 CATAGACTTTTGACAATGGCAGAATGCACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG205984 representing NM_006988
 Red=Cloning site Green=Tags(s)

MQRVPEGFGRRLGSDMGNAERAPGSRSGPVPPTLLLLAAALLAVSDALGRPSEDEELVPELERAPG
 HGTTTRLRLHAFDQQLDLELRPDSSFLAPGFTLQNVGRKSGSETPLPETDLAHC FYSGTVNGDPSSAAALS
 LCEGVRGAFYLLGEAYFIQPLPAASERLATAAPGEKPPAPLQFHLLRRNRQGDVGGTCGVVDDEPRPTGK
 AETEDDEGTEGEDEGPQWSPQDPALQGVGQPTGTGSIRKKRFVSSHRYVETMLVADQSMAEFHGSLKH
 YLLTLFSVAARLYKHPSIRNSVSLVVKILVIHDEQKGPEVTSNAALTLRNF CNWQKQHNPPSDRAEHY
 DTAIFLTRQDLCGSQTCDTLGMADVGTVCDPSPRSCSVIEDDGLQAAFTTAHELGHVFNMPHDDAKQCASL
 NGVNQDSHMMASMLSNLDHSQPWSPCSAYMITSFLDNGHGECLMDKPQNPIQLPGDLPGTSYDANRQCQF
 TFGEDSKHCPDAASTCSTLWCTGTSGGVLVCQTKHFPWADGTSCGEGKWCINGKCVNKTRKHFDTPFHG
 SWGMWGPWGDCSRTC GGGVQYTMRECDNPVPKNGGKYCEGKRVRYRSCNLEDCPDNNGKTFREEQCEAHN
 EFSKASFSGSPPAVEWIPKYAGVSPKDRCKLICQAKGIGYFVLQPKVVDGTPCSTDSTSVCVQGQCVKAG
 CDRIIDSKKKFKDCGVCNGNSTCKKISGVS TSAKPGYHDIIT IPTGATNIEVKQRNQRGSRNNGSFLAI
 KAADGTYILNGDYTLSTLEQDIMYKGVVLRYSGSSAALERIRSF SPLKEPLTIQVLTVGNALRPKIKYTY
 FVKKKESFNAIPTFSAWVIEEWGEC SKSCELGWQRRLVECRDINGQPASECAKEVKPASTRPCADHPCP
 QWQLGEWSSCSKTCGKGYKRS LKCLSHDGGVLSHESCDPLKPKKHFIDFCTMAECS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_006988

ORF Size: 2901 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 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:

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](#)

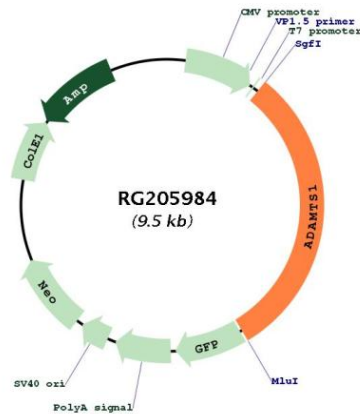
Cytogenetics: 21q21.3

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]

Product images:

Circular map for RG205984