

Product datasheet for **RG208574**

ADAMTS7 (NM_014272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS7 (NM_014272) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAMTS7
Synonyms:	ADAM-TS 7; ADAM-TS7; ADAMTS-7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208574 representing NM_014272 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCGGCCAGTCCCCGACGCCCGCGCCTTTGCTGCGCCCCCTCCTCTGCTCCTCTGCGCTC
TGGCTCCCGCGCCCCGGACCCGACCCAGGACGTGCAACCGAGGGCCGGCGGCGACTGGACATCGTGCA
CCCGGTTTCGAGTCGACCGGGGGCTCCTTCTGTCTACGAGCTGTGGCCCCGCGACTGCGCAAGCGG
GATGTATCTGTGCGCCGAGACCGCCCGCTTCTACGAGCTACAATACCGCGGGCGGAGCTGCGCTTCA
ACCTGACCGCCAATCAGCACCTGTGGCGCCCGCTTTGTGAGCGAGACCGGGCGCGCGGCCCTGGG
CCGCGCGCACATCCGGGCCACACCCCGCCTGCCATCTGCTTGGCGAGGTGCAGGACCCCTGAGCTCGAG
GGTGGCCTGGCGCCATCAGCGCCTGCGACGGCCTGAAAGGTGTGTTCCAGCTCTCCAACGAGGACTACT
TCATTGAGCCCCGACAGTGCCTCCCGCCCGCCTGGCCACGCCAGCCCATGTGGTGTACAAGCGTCA
GGCCCCGGAGAGGCTGGCACAGCGGGGTGATCCAGTGTCCAAGCACCTGTGGAGTGAAGTGTACCCA
GAGCTGGAGTCTCGACGGGAGCGTTGGGAGCAGCGCAGCAGTGGCGGGCCACGGCTGAGGCGTCTAC
ACCAGCGTCCGTCAGCAAAGAGAAGTGGTGGAGACCTGGTGGTAGCTGATGCCAAAATGGTGGAGTA
CCACGGACAGCCGAGGTTGAGAGCTATGTGCTGACCATCATGAACATGGTGGCTGGCCTGTTTCATGAC
CCCAGCATTGGGAACCCCATCCACATCACCATTGTGCGCCTGGTCTGGAAGATGAGGAGGAGGACC
TAAAGATCATGCACCATGCAGACAACACCTGAAGAGCTTCTGCAAGTGGCAGAAAAGCATCAACATGAA
GGGGATGCCATCCCCTGCACCATGACTGCCATCCTGCTCACCAGAAAGACCTGTGTGACGCCATG
AACCGGCCCTGTGAGACCCTGGGACTGTCCATGTGGCGGCATGTGCCAGCCGACCCGAGCTGCAGCA
TCAACGAGGACACGGCCTGCCGCTGCCCTTCACTGTAGCCACGAGCTCGGGCACAGTTTTGGCATTCA
GCATGACGGAAGCGCAATGACTGTGAGCCGTTGGAAACGACCTTTCATCATGTCTCCACAGCTCCTG
TACGACCGCCTCCCCTCACCTGGTCCCCTGCAGCCGCCAGTATACCCAGGTTCTTGACCGTGGGT
GGGCCTGTGCCTGGACGACCTCCTGCCAAGGACATTACGACTTCCCCTCGTGCCACCTGGCGTCT
CTATGATGTAAGCCACCAGTGGCGCTCCAGTACGGGCTACTCTGCCTCTGCGAGGACATGGATAAT



[View online »](#)

GTCTGCCACACTCTGGTGTCTGTGGGGACCACCTGTCACTCCAAGCTGGATGCAGCTGTGGACGGCA
 CCCGGTGTGGGGAGAATAAGTGGTGTCTCAGTGGGGAGTGCGTACCCGTGGGCTTCCGGCCCGAGGCCGT
 GGATGGTGGCTGGCTGGCTGGAGCGCCTGGTCCATCTGCTCACGGAGCTGTGGCATGGGCGTACAGAGC
 GCCGAGCGGCAGTGCACGCAGCCTACGCCCAAATACAAAGGCAGATACTGTGTGGGTGAGCGCAAGCGCT
 TCCGCCTCTGCAACCTGCAGGCCTGCCCTGCTGGCCGCCCTCCTTCCGCCACGTCCAGTGCAGCCACTT
 TGACGCTATGCTCTACAAGGGCCAGCTGCACACATGGGTGCCCGTGGTCAATGACGTGAACCCCTGCCGAG
 CTGCATGCCCGCCCGAATGAGTACTTTGCCGAGAAGCTGCGGGACGCCGTGGTGCATGGCACCCCT
 GCTACCAGGTCCGAGCCAGCCGGGACCTCTGCATCAACGGCATCTGTAAGAACGTGGGCTGTGACTTCGA
 GATTGACTCCGGTGTATGGAGGACCGCTGTGGTGTGTGCCACGCAACGGCTCCACCTGCCACACCGTG
 AGCGGGACCTTCGAGGAGCCGAGGGCCTGGGGTATGTGGATGTGGGGCTGATCCAGCGGGCGCACGCG
 AGATCCGCATCCAAGAGGTTGCCGAGGCTGCCAACTTCTGGCACTGCGGAGCGAGGACCCGGAGAAGTA
 CTTCTCAATGGTGGCTGGACCTCCAGTGAACGGGGACTACCAGTGGCAGGGACCACCTTACATAC
 GCACGCAGGGGCAACTGGGAGAACCTCACGTCCCCGGTCCCACCAAGGAGCCTGTCTGGATCCAGCTGC
 TGTTCCAGGAGAGCAACCCTGGGGTGCACACGAGTACACCATCCACAGGAGGCAGGTGGCCACGACGA
 GGTCCCAGCGCCCGTGTCTCTGGCATTATGGGCCCTGGACCAAGTGCACAGTCACTGCGGCAGAGGT
 GTGCAGAGACAGAATGTGTACTGCTTGGAGCGGCAGGCAGGGCCCGTGGACGAGGAGCACTGTGACCCCC
 TGGGCCGGCTGATGACCAACAGAGGAAGTGCAGCGAGCAGCCCTGCCCTGCCAGGTGGTGGCAGGTGA
 GTGGCAGCTGTGCTCCAGCTCCTGCGGGCTGGGGCCTCTCCGCCGGGCCGTGCTGTGCATCCGACG
 GTGGGGCTGGATGAGCAGAGCGCCCTGGAGCCACCCGCTGTGAACACCTTCCCGGCCCCCTACTGAAA
 CCCCTTGAACCGCCATGTACCTGTCCGGCCACTGGGCTGTGGGGAAGTGGTCTCAGTGTCTCAGTGC
 ATGTGGGGAGGGCACTCAGCGCCGAAATGTCTCTGCACCAATGACACCGGTGTCCCCTGTGACGAGGCC
 CAGCAGCCAGCCAGCGAAGTACCTGCTCTGCCACTGTGCGTGGCCCTGGGCACACTGGGCCCTG
 AAGGCTCAGGCAGCGGCTCCTCCAGCCAGAGCTTTCAACGAGGCTGACTTCACTCCCGACCCACTGG
 CCCAGCCCTTACCCCGCTCATCACCCAAGCCAGGCACCATGGGCAACGCCATTGAGGAGGAGGCTCCA
 GAGCTGGACCTGCCGGGGCCCGTGTGGTGGACGACTTCTACTACGACTACAATTCATCAATTTCCACG
 AGGATCTGCTCCTACGGGCCCTCTGAGGAGCCGATCTAGACCTGGCGGGGACAGGGGACCCGGACCCCC
 ACCACACAGCCATCCTGCTGCGCCCTCCACGGGTAGCCCTGTGCCTGCCACAGAGCCTCCTGCAGCCAAG
 GAGGAGGGGACTGGGACCTTGGTCCCCGAGCCCTTGGCCTAGCCAGGCGGCCGCTCCCACCCCCAC
 CCTCAGAGCAGACCCCTGGGAACCCTTTGATCAATTTCTGCCTGAGGAAGACACCCCATAGGGGCCCC
 AGATCTTGGGCTCCCAGCCTGTCTGGCCAGGGTTTCCACTGATGGCCTGCAGACACCTGCCACCCCT
 GAGAGCCAAAATGATTTCCAGTTGGCAAGGACAGCCAGAGCCAGCTGCCCCCTCCATGGCGGGACAGGA
 CCAATGAGGTTTTCAAGGATGATGAGGAACCCAAGGGCCGCGGAGCACCCACCTGCCCCCGAGACCCAG
 CTCCACGCTGCCCCCTTTGTCCCCTGTTGGCAGCACCCACTCCTCTCCTAGTCTGACGTGGCGGAGCTG
 TGGACAGGAGGCACAGTGGCCTGGGAGCCAGCTCTGGAGGGTGGCCTGGGGCCTGTGGACAGTGAAGTGT
 GGCCCACTGTTGGGGTGGCTTCTCTCCTCCTCCATAGCCCTCTGCCAGAGATGAAGTCAAGGGA
 CAGTTCCTGGAGCCGGGACTCCCTCCTTCCCAACCCAGGACCCAGGCTCATGGGACCTGCAGACTGTG
 GCAGTGTGGGGACCTTCTCCCAACCCCTGACTGGCCTCGGGACATGCCTGAGCCTGCCCTGAACC
 CAGGACCCAAGGGTCAAGTCCCTCAGCCCTGAGGTGCCCTGAGCTTAGGCTGCTGTCCACACC
 AGCTTGGGACAGCCCGCCAACAGCCACAGAGTCCCTGAGACCCAGCCGCTGGCTCCCAGCCTGGCTGAA
 GCGGGGCCCCCGCGGACCCGTTGGTTGTGAGGAACCGCCGCTGGCAAGCGGGAAACTGGAGCGAGTGTCT
 CTACCACCTGTGGCCTGGGTGCGGTCTGGAGGCCGGTGCCTGTAGTCCGGCCGGGATGAGGACTGCGC
 CCCCCTGGCCGGCCCCAGCCTGCCCGCCCTGCCACCTGCGGCCCTGTGCCACCTGGCACTCAGGCAAC
 TGGAGTAAGTGTCCCGCAGCTGCGGGGAGGTTCTCAGTGCAGGACGTGCAGTGTGTGGACACACGGG
 ACCTCCGGCACTGCGGCCCTTCCATTGTGAGCCCGGGCCTGCCAAGCCGCTGCGCACCCGGCCCTGCGG
 GGCCAGCCCTGCCTCAGCTGGTACACATCTTCTGGAGGGAGTGTCCGAGGCTGTGGCGGTGGTGG
 CAGCAGCGTCTAGTGACCTGCCCGAGCCAGGCCCTCTGCGAGGAGGCGCTGAGACCAACACCACCCGGC
 CCTGCAACACCCACCCCTGCACGCAGTGGGTGGTGGGGCCCTGGGGCCAGTGTCTCAGGCCCTGTGGTGG
 TGGTGTCCAGCGCGCCTGGTCAAGTGTGTCAACACCCAGACAGGCTGCCCGAGGAAGACAGTACCAG
 TGTGGCCACGAGGCTGGCCTGAGAGCTCCCGGCCGTGTGGCACCGAGGATTGTGAGCCCGTTCGAGCCTC
 CCCGCTGTGAGCGGGACCGCCTGTCTTCCGGTTCTGCGAGACGCTGCGCCTACTGGGCCGCTGCCAGCT
 GCCCACCATCCGACCCAGTGTGCCGCTGTGCTCTCCGCCAGCCACGGCGCCCTCCCAGGCCAT
 CAGCGGGTTGCCCGCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208574 representing NM_014272
 Red=Cloning site Green=Tags(s)

MPGGSPRSPAPLLRPLLLLLCALAPGAPGAPGRATEGRAALDIVHPVRVDAGGSFSLSYELWPRALRKR
 DVSVRRDAPAFYELQYRGRELFNLTANQHLLAPGFVSETRRRGGLGRAHIRAHTPACHLLGEVQDPELE
 GGLAAISACDGLKGVFQLSNEDYFIEPLDSAPARPGHAQPHVVYKRQAPERLAQRGDSSAPSTCGVQVYP
 ELESRRERWEQRQWRPRLRRLHQRSVSKEKVVETLVVADAKMVEYHGQPQVESYVLTIMNMVAGLFHD
 PSIGNPIHITIVRLVLEDEEEDLKIMHHADNTLKSFCWKQKINMKGDAHPLHHDTAILLTRKDLCAAM
 NRPCETLGLSHVAGMCQPHRSCSINEDTGLPLAFTVAHELGHSGFIQHDGSGNDCEPVGKRPFIMSPQLL
 YDAAPLTWSRCSRQYITRFLDRGWGLCLDDPPAKDIIDFPVPPGVLYDVSHQCRQLQYGAYSAFCEDMDN
 VCHTLWCSVGTTCCHSKLDAAVDGTTRCGENKWCLSGECVPVGFPEAVDGGWSGWSAWICSRSRSCGMVQS
 AERQCTQPTPKYKGRYCVGERKRFRLCNLQACPGRPSFRHVQCSHFDAMLYKQQLHTWVPVNDVNPCE
 LHCRPANNEYFAEKLDAVVDGTPCYQVRASRDLCINGICKNVGCDFEIDSGAMEDRCGVCHGNGSTCHTV
 SGTFFEEAEGLYVDVGLIPAGAREIRIQEVAEAAFLALRSEDPEKYFLNGGWTIQWNGDYQVAGTFTTY
 ARRGNWENLTSFGPTKEPVWIQLLFQESNPGVHYEYTIHREAGGHDEVPPPVFSWHYGPWKCTVTCGRG
 VQRQNVYCLERQAGPVDEEHCDPLGRPDDQQRKCEQPCCPARWWAGEWQLCSSSCGPGGLSRAVLCIRS
 VGLDEQSALEPPACEHLPRPTEPCNRHVPCPATWAVGNWSQCSVTCGEGTQRRNVLCTNDTGVPCEA
 QQPASEVTCSLPLCRWPLGTLGPEGSGSGSSSHEL FNEADFI PHHLAPRSPASSPKPGTMGNAIEEEAP
 ELDLPGPVFVDDFYDYNF INFHEDLSYGPSEEDLDLAGTGDRTPPPHSHPAAPSTGSPVPATEPPAAK
 EEGVLGPWSPSPWPSQAGRSPPPSEQTPGNPLINFLPEEDTPIGAPDLGLPSLSWPRVSTDGLQTPATP
 ESQNDFFPVGKDSQSLPPPWRDRTEVFKDDEEPKGRGAPHLPPRPSSTLPPLSPVGSTHSSPSDVAEL
 WTGGTVAWEPALLEGGLGPVDESELWPTVGVASLLPPIAPLPEMKVRDSSLEPGTSPFPTPGGSWDLQTV
 AVWGTFLLPTTLTGLGHMPEPALNPGPKQPESLSPEVPLSSRLLSTPAWDS PANSHRVPETQPLAPSLAE
 AGPPADPLVVRNAGWQAGNWSECSTTCGLGAVWRPVRCSSGRDEDCAPAGRPQARRCHLRPCATWHSNG
 WSKCSRSCGGSSVRDVQCVDTDRDLRPLRPFHCQPGPAKPPAHRPCGAQPCLSWYTSSWRECSEACGGGE
 QQRLVTCPEPGLCEEALRPNTTRPCNTHPCTQWVVGWQCSGPCGGGVQRRLVKCVNTQTGLPEEDSDQ
 CGHEAWPESSRRCGTEDCEPVEPPRCERDRLSFGFCETLRLLRGRCQLPTIRTQCCRSCSPSSHGAPSRGH
 QRVARR

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2344_e05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014272

ORF Size: 5058 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_014272.3](#), [NP_055087.2](#)

RefSeq Size: 5537 bp

RefSeq ORF: 5061 bp

Locus ID: 11173

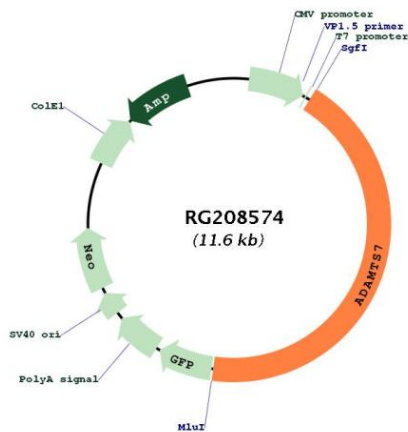
UniProt ID: [Q9UKP4](#)

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]

Product images:



Circular map for RG208574