

## Product datasheet for RC224243

### ADAMTS12 (NM\_030955) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS12 (NM_030955) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAMTS12
Synonyms:	PRO4389
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224243 representing NM_030955 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCATGTGCCAGAGGAGCTGGCTTGCAAACCTTTCGGTGGTGGCTCAGCTCCTAACTTTGGGGCGC  
TTTGCTATGGGAGACAGCCTCAGCCAGGCCGGTTCGCTTCCCGGACAGGAGGCAAGAGCATTTTATCAA  
GGGCTGCCAGAATACCACGTGGTGGTCCAGTCCGAGTAGATGCCAGTGGGCATTTTTGTGCATATGGC  
TTGCACTATCCCATCACGAGCAGCAGGAGGAAGAGAGATTTGGATGGCTCAGAGGACTGGGTGTACTACA  
GAATTTCTCACGAGGAGAAGGACCTGTTTTTAACTTGACGGTCAATCAAGGATTTCTTTCCAATAGCTA  
CATCATGGAGAAGAGATATGGGAACCTCTCCCATGTTAAGATGATGGCTTCTCTGCCCCCTCTGCCAT  
CTCAGTGGCACGGTTCACAGCAGGGCACCAGAGTTGGGACGGCAGCCCTCAGTGCTGCCATGGACTGA  
CTGGATTTTTCCAATACCACATGGAGACTTTTTTCATTGAACCCGTGAAGAAGCATCCACTGGTTGAGGG  
AGGGTACCACCCGCACATCGTTTACAGGAGGCAGAAAGTCCAGAAACCAAGGAGCCAACCTGTGGATTA  
AAGGACAGTGTTAACATCTCCAGAAGCAAGAGCTATGGCGGGAGAAGTGGGAGAGGCACAACTTGCCAA  
GCAGAAGCCTCTCTCGGCGTTCATCAGCAAGGAGAGATGGGTGGAGACTGGTGGTGGCCGACACAAA  
GATGATTGAATACCATGGGAGTGAGAATGTGGAGTCTACATCCTCACCATCATGAACATGGTCACTGGG  
TTGTTCCATAACCAAGCATTGGCAATGCAATTCACATTGTTGTGGTTCGGCTCATTCTACTCGAAGAAG  
AAGAGCAAGGACTGAAAATAGTTCAACCATGCAGAAAAGACACTGTCTAGCTTCTGCAAGTGGCAGAAGAG  
TATCAATCCCAAGAGTGACCTCAATCCTGTTTCATCACGACGTGGCTGTCTTCTCACCAGAAAGGACATC  
TGTGCTGGTTTCAATCGCCCTGCGAGACCCTGGGCTGTCTCACCTTTCAGGAATGTGTGAGCCTCACC  
GCAGTTGTAACATCAATGAAGATTCGGGACTCCCTCTGGCTTTCACAATTGCCCATGAGCTAGGACACAG  
CTTCGGCATCCAGCATGATGGGAAAGAAAATGACTGTGAGCCTGTGGCAGACATCCGTACATCATGTCC  
CGCCAGCTCCAGTACGATCCCACTCCGCTGACATGGTCCAAGTGCAGCGAGGAGTACATCACCCGCTTCT  
TGGACCGAGGCTGGGGTCTGTCTTGATGACATACCTAAAAGAAAGGCTTGAAGTCCAAGGTCATTGC  
CCCCGGAGTGATCTATGATGTTACCACCAGTGCCAGCTACAATATGGACCAATGCTACCTTCTGCCAG



GAAGTAGAAAACGTCTGCCAGACACTGTGGTGCTCCGTGAAGGGCTTTTGTGCTCTAAGCTGGACGCTG  
 CTGCAGATGGAACCTCAATGTGGTGAGAAGAAGTGGTGTATGGCAGGCAAGTGCATCACAGTGGGGAAGAA  
 ACCAGAGAGCATTCTGGAGGCTGGGGCCGCTGGTCACCCTGGTCCCCTGTTCCAGGACCTGTGGGGCT  
 GGAGTCCAGAGCGCAGAGAGGCTCTGCAACAACCCCGAGCCAAAGTTTGGAGGGAATATTGCACTGGAG  
 AAAGAAAACGCTATCGCTTGTGCAACGTCCACCCTGTGCTCAGAGGCACCAACATTTCCGCAGATGCA  
 GTGCAGTGAATTTGACACTGTTCCCTACAAGAATGAACTCTACCCTGGTTTCCCATTTTAAACCCAGCA  
 CATCCTTGTGAGCTCTACTGCCGACCCATAGATGGCCAGTTTTCTGAGAAAATGCTGGATGCTGTCAATTG  
 ATGGTACCCTTGTCTTGAAGGCGGCAACAGCAGAAATGTCTGTATTAATGGCATATGTAAGATGGTTGG  
 CTGTGACTATGAGATCGATTCCAATGCCACCGAGGATCGCTGCGGTGTGTGCCTGGGAGATGGCTCTTCC  
 TGCCAGACTGTGAGAAAGATGTTAAGCAGAAGGAAGGATCTGGTTATGTTGACATTGGGCTCATTCCAA  
 AAGGAGCAAGGGACATAAGAGTGATGGAATTTAGGGAGCTGGAACCTTCTGGCCATCAGGAGTGAAGA  
 TCCTGAAAAATATTACCTGAATGGAGGGTTTATTATCCAGTGAACGGGAACATAAGCTGGCAGGGACT  
 GTCTTTCAGTATGACAGGAAAGGAGACCTGGAAAAGCTGATGGCCACAGGTCCCACCAATGAGTCTGTGT  
 GGATCCAGCTTCTATTCCAGGTGACTAACCTGGCATCAAGTATGAGTACACAATCCAGAAAGATGGCCT  
 TGACAATGATGTTGAGCAGCAGATGTACTTCTGGCAGTACGGCCACTGGACAGAGTGCAGTGTGACCTGC  
 GGGACAGGTATCCGCGCCAAACTGCCATTGCATAAAGAAGGGCCGCGGGATGGTGAAAGCTACATTCT  
 GTGACCCAGAAAACACAGCCCAATGGGAGACAGAAGAAGTGCCATGAAAAGGCTTGTCCACCCAGGTGGTG  
 GGCAGGGGAGTGGGAAGCATGCTCGGCGACATGCGGGCCACGCGGGAGAAGAAGCGAACCGTGCTGTGC  
 ATCCAGACCATGGTCTCTGACGAGCAGGCTCTCCCGCCACAGACTGCCAGCACCTGCTGAAGCCCAAGA  
 CCCTCCTTTCTGCAACAGAGACATCCTGTGCCCTCGGACTGGACAGTGGGCAACTGGAGTGAAGTGTTC  
 TGTTTCTGTGGTGGTGGAGTGGGATTCGAGTGTGCATGTGCCAAGAACCATGATGAACCTTGGCAT  
 GTGACAAGGAAACCCACAGCCGAGCTCTGTGTGGCTCCAGCAATGCCCTTCTAGCCGGAGAGTCTGA  
 AACCAAAACAAGGCACATTTTCCAATGGAAAAACCCACCAACTAAAGCCCTCCCTCCACCTACATC  
 CAGGCCCAGAATGCTGACCACACCACAGGGCCTGAGTCTATGAGCACAAGCACTCCAGCAATCAGCAGC  
 CCTAGTCTACCACAGCTCCAAAGAAGGAGACCTGGGTGGGAAACAGTGGCAAGATAGCTCAACCAAC  
 CTGAGCTGAGCTCTCGTATCTCATTTCCACTGGAAGCACTTCCCAGCCATCTCACTTCCCAATCCTT  
 GAGCATTAGCCAAGTGAGGAAAATGTTCCAGTTCAGATACTGGTCTACCTCGGAGGGAGGCCTTGTA  
 GCTACAACAACAAGTGGTCTGGCTTGCATCTTCCCGCAACCCTATCACTTGGCTGTGACTCCATTTT  
 ACAATACCTTGACCAAAGGTCCAGAAATGGAGATTCACAGTGGCTCAGGGGAAGAAGAGAACAGCCTGA  
 GGACAAAGATGAAAGCAATCCTGTAATATGGACCAAGATCAGAGTACCTGGAATGACGCTCCAGTGGAA  
 AGTACAGAAATGCCACTGCACCTCCACTAACACCAGATCTCAGCAGGGAGTCTGGTGGCCACCCTTCA  
 GCACAGTAAATGGAAGGACTGCTCCCGAGCCAAAGGCCACTACTCCGAAACTGGGACACCCAGAGTTGA  
 GGGGATGGTTACTGAAAAGCCAGCCAACACTCTGCTCCCTCTGGGAGGAGACCACCAGCCAGAACCCTCA  
 GGAAAGACGGCAAACCGTAACCACCTGAAACTTCCAAACAACATGAACCAAAACAAAAGTTCTGAACCAG  
 TCCTGACTGAGGAGGATGCAACAAGTCTGATTACTGAGGGCTTTTTGCTAAATGCCTCCAATTACAAGCA  
 GCTCACAACGGCCACGGCTCTGCACACTGGATCGTGGAAAATGGAGCGAGTGTCCACCACATGTGGC  
 CTGGGGCCCTACTGGAGAAGGGTGGAGTGCAGCACCCAGATGGATTCTGACTGTGCGGCCATCCAGAGAC  
 CTGACCCTGCAAAAAGATGCCACCTCCGTCCCTGTGCTGGCTGGAAGTGGGAACTGGAGCAAGTGCTC  
 CAGAAAATGCAGTGGGGCTTCAAGATACGCGAGATTAGTGGTGGACAGCCGGGACCACCGGAACTCTG  
 AGGCCATTTCACTGCCAGTTCCTGGCCGGCATTCTCCCCATTGAGCATGAGCTGTAACCCGGAGCCCT  
 GTGAGGCGTGGCAGGTGGAGCCTTGGAGCCAGTGTCCAGGTCTGTGGAGGTGGAGTTCAGGAGAGAGG  
 AGTGTCTGTCCAGGAGGCCTCTGTGATTGGACAAAAAGACCCACATCCACCATGTCTTGAATGAGCAC  
 CTGTGCTGTCACTGGGCCACTGGGAACTGGGACCTGTGTTCCACTTCTGTGGAGGTGGCTTTCAGAAGA  
 GGACTGTCCAATGTGTGCCCTCAGAGGGCAATAAAACTGAAGACCAAGACCAATGTCTATGTGATCACAA  
 ACCCAGACCTCCAGAATCAAAAAATGCAACCAGCAGGCCTGCAAGAAAAGTGCCGATTTACTTTGCACT  
 AAGGACAACTGTGAGCCAGTTTCTGCCAGACACTGAAAGCCATGAAGAAATGTTCTGTGCCACCCTGA  
 GGGCTGAGTGTCTTCTCGTGTCCCAGACACACATCACACACCCAAAGGCAAGAAGCAACGGTT  
 GCTCCAAAAGTCAAAAGAACT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224243 representing NM\_030955  
 Red=Cloning site Green=Tags(s)

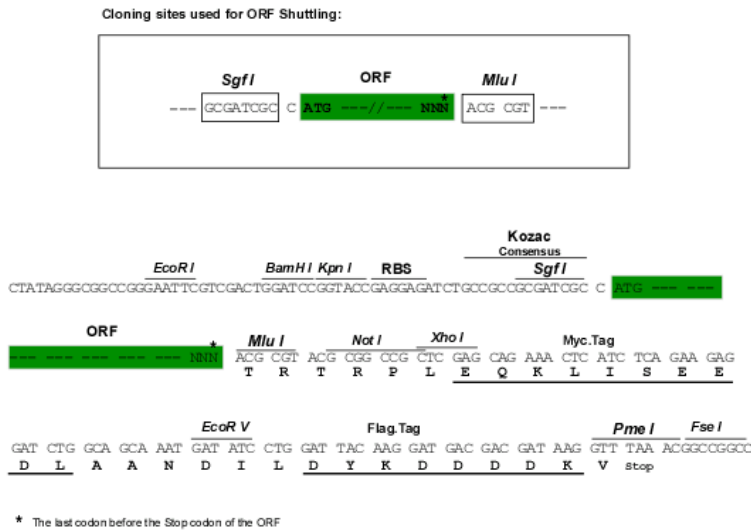
```
MPCAQRSWLANLSVVAQLLNFGALCYGRQPQPGVRFPPDRRQEHFIKGLPEYHVVGPRVDASGHFLSYG
LHYPITSSRRKRDLGSEDWVYYRISHEEKDLFFNLTVNQGFLSNSYIMEKRYGNLSHVKMMASSAPLCH
LSGTVLQQGTRVGTAAALSACHLGTGFFQLPHGDFEIEPVKKHPLVEGGYHPHIVYRRQKVPETKEPTCGL
KDSVNISSQKQELWREKWERHNLPSRSLRRRSISKERWVETLVVADTKMIEYHSGENVESYILTIMNMVTG
LFHNPSIGNAIHIVVVRLLILLEEEEQGLKIVHHAETLSSFCWKQKSINPKSDLNPVHHDVAVLLTRKDI
CAGFNRPCE TLGLSHLSGMCQPHRSCNINEDSGLPLAFTIAHELGHSGFIQHDGKENDCEPVGRHPYIMS
RQLQYDPTPLTWSKCSSEYITRFLDRGWGFLCDDIPKKKGLKSKVIAPGVIYDVHHCQLQYGNATFCQ
EVENVCQTLWCSVKGFCSRKLDAAADGTQCGEKKWCMAGKCITVGKKPESIPGGWGRWSPWSHCSRTC GA
GVQSAERLCNNPEPKFGGKYCTGERKRYRLCNVHPCRSEAPTFRQMQCEFDTPYKNELYHWFPIFNPA
HPCEL YCRPIDGQFSEKMLDAVIDGTPCFEGGNSRNVCI NGICKMVGCDYEIDS NATEDRCGVCLGDGSS
CQTVRKMFKQKEGSGYVDIGLIPKGARDIRVMEIEGAGNFLAIRSEDPEKYYLNGGFI IQWNGNYKLAGT
VFQYDRKGDLEKLMATGPTNESVWIQLLFQVTNPGIKYEYTIQKDGLDNDVEQQMYFWQYGHWTESVTC
GTGIRRTAHCICKGRGMVKATFCDPETQPNGRQKKCHEKACPPRWWAGEWEAC SATCGPHGEKKRTVLC
IQTMVSD EQALPPTDCQHLLKPKTLLSCNRDILCPSDWT VGNWSECSVSCGGGVRI RSVTCAKNHDEPCD
VTRKPNRSLCGLQQCPSSRRVLKPNKGTISNGKNPPTLKPVPPTSRPRMLTPTGPESMSTSTPAISS
PSPTTASKEGDLGGKQWQDSSTQPELSSRYLISTGSTSQPILTSQSLSIQPSEENVSSSDTGP TSEGGLV
ATTTSGSGLSSSRNPITWPVTPFYNTLTKGPEMIEHSGSGEEREQPEDKDESNPVIWTKIRVPGNDAPVE
STEMPLAPPLTPDL SRESWWPPFSTVMEGLLPSQRPTTSETGTPRVEGMVTEKPANTLLPLGGDHQPEPS
GKTANRNHLKLPNNMNQTKSSEPVLTEEDATSLITEGFL LNASNYKQLTNGHGS AHWIVGNWSECSTTCG
LGAYWRRVE CSTQMDS DCAAIQRDPDAKRCHLRPCAGWKVGNWSKCSRNC SGGFKIREIQCVDSRDHRNL
RPFHCQFLAGIPPLS MSCNPEPCEAWQVEPWSQCSRSCGGGVQERGVFCPGGLCDWTKRPTSTMSCNEH
LCCHWATGNWDL CSTSCGGGFQKRTVQCVPSEGNKTEDQDQCLCDHKPRPPEFKKCNQACKKSADLLCT
KDKLSASFQTLKAMKKCSVPTVRAECCFSCPQTHITHTQRQRRLQKSKEL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8043\\_f01.zip](https://cdn.origene.com/chromatograms/mk8043_f01.zip)

**Restriction Sites:** Sgfl-MluI

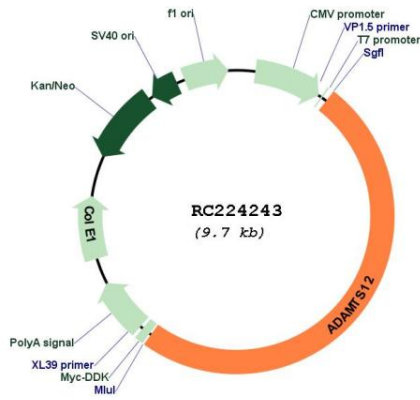
**Cloning Scheme:**



**ACCN:** NM\_030955

<b>ORF Size:</b>	4782 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030955.4</a>
<b>RefSeq Size:</b>	4955 bp
<b>RefSeq ORF:</b>	4785 bp
<b>Locus ID:</b>	81792
<b>UniProt ID:</b>	<a href="#">P58397</a>
<b>Cytogenetics:</b>	5p13.3-p13.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	177.5 kDa
<b>Gene Summary:</b>	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) 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-1) motif. Individual members of this family differ in the number of C-terminal TS-1 motifs, and some have unique C-terminal domains. The enzyme encoded by this gene contains eight TS-1 motifs. It may play roles in pulmonary cells during fetal development or in tumor processes through its proteolytic activity or as a molecule potentially involved in regulation of cell adhesion. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224243