

Product datasheet for **MC224758**

Adamts7 (NM_001003911) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts7 (NM_001003911) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adamts7
Synonyms:	ADAM-; ADAM-TS7; ADAMTS7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224758 representing NM_001003911 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCACCGTGGTCCGAGTCTCCTCTGATCCTGTGCGCTCTGGCGTCCCGCTCCTCGGACCTGCATCAG
GTCTTGTGACTGAGGGCCGGGCGGGTTTGGACATCGTGCACCCGGTGCGAGTGGATGCTGGAGGCTCCTT
CCTGTCTATGAGCTGTGGCCACGGGTGCTGCGCAAGCGCGATGTGTCCACCACGCAGGCTTCGTCTGCT
TTCTACCAGCTGCAGTACCAAGGGCGGGAATGCTTTTCAACTTGACCACCAACCCTTATCTGATGGCTC
CCGGCTTTGTGAGTGAGATTCGACGTACAGCACTTTAGGCCATGCGCACATCCAAACCAGTGTCCCAAC
CTGCCATTTGCTTGGTGATGTCCAGGACCCGGAGCTGGAAGGAGGCTTTGCAGCCATTAGCGCCTGCGAT
GGCCTAAGAGGTGTGTTCCAGCTCTCCAATGAGGACTACTTCATTGAGCCTCTGGATGGAGTTTCAGCTC
AGCCTGGACATGCCCAGCCCCATGTGGTATACAAGCACCAGGCTCTAGGAAGCAGGCCCAGCAGGGTGA
CTCAAGGCCTTCAGGCACCTGTGGGATGCAAGTGCCCCCAGATCTGGAGCAGCAGCGAGAACATTGGGAA
CAGCAGCAGCAGAAACGGAGGCAGCAGCGATCAGTCAGCAAGAGAAGTGGGTGGAGACCCTGGTAGTGG
CTGATTCCAAGATGGTCGAGTACCATGGGCAGCCGCAAGTGGAGAGCTATGTGCTGACGATCATGAACAT
GGTGGCTGGACTCTTTCATGATCCAAGCATTGGGAACCCCATTCACATCAGCATTGTGCGCCTTATCATA
CTGGAAGACGAGGAGAAGGACTTAAAGATCACACACCATGCCGAAGAGACTCTGAAGAATTCTGTAGGT
GGCAGAAAGAACATTAAACATAAAGGGGATGACCAACCCACAGCACCATGACACTGCCATCCTGCTCACCAG
GAAGGATTTGTGTGCGTCCATGAACCAGCCATGTGAAACCCTGGGCTGTCTCATGTGTCTGGCTTGTGC
CACCCTCAGCTCAGCTGTAGCGTCAGTGAGGATACTGGCATGCCACTGGCCTTCACTGTGGCCACGAGC
TAGGACACAGTTTTGGCATTGAGCATGACGGCACCGGCAATGACTGTGAATCCATTGGGAAACGGCCTTT
CATCATGTCTCCACAGCTCCTGTATGACAGAGGCATTCTCTTACCTGGTCCCGATGCAGCCGCGAGTAC
ATCACCAGGTTCTTGACCGTGGGTGGGCTGTGCTTAGATGACCGTCCATCCAAGGATGTCATTGCAC
TCCCTCGGTGTGCCCGGTGCTCTGTATGATGTGAACCACCAAGTCCGCTTCAGTATGGGTCTCACTC
TGCTACTGTGAGGACATGGATGATGTCTGCCACACACTATGGTGCTCTGTGGGACCACCTGTCACTCC



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AAGCTGGATGCGGCTGTGGATGGCACGAGCTGTGGGAAGAATAAGTGGTGTCTCAAAGGAGAGTGCCTCC
CTGAGGGCTTCCAGCCGAGGCGGTGGACGGTGGCTGGTCCGGTTGGAGTGCCTGGTCTGACTGCTCGAG
GAGCTGTGGCGTGGGTGTACGGAGTTCTGAACGACAGTGCACGCAGCCTGTGCCTAAGAACAGAGGCAAG
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TGCGGAGTGAGGACCCAGATAAGTACTTCTCAATGGAGGCTGGACCATCCAGTGAATGGAGACTACCG
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CCCCGTCCTTGCTGAAACCCCGTGCAACCGTCATGTAATCTGTCTTCCACTTGGGGTGTGGGAACT
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ATGACTACAATTCATTAACCTTCCATGAAGACCTGTCTATGGGTCTTTGAAGAACCCCATCCAGACCT
GGTTGATAATGGGGTGGACAGCACCACCTCACATCAGACCCACTGAATCTCCCTCAGTACCCAGTA
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GATATGATGACACCTGTTGGCCCTGGAACCCCTGATGAGTTGCTAGTGAAAGAAGATGAGCAGAGCCAC
CATCCACTCCATGGTCTGATAGGAACAACTTTCTACAGATGGTAACCCCTTGGGTCATACATCCCTGC
CCTGCCCAAAGCCCTATCCCCACACAGCCCTCTCCACCCTCCATCAGTCTACCAAGCTTCTCCGAGT
CCTGATGTGGTGGAGGTGTCGACAGGATGGAATCGGCCTGGGACCTGTGCTAGAGGCTGACCTGAAGC
CCGGACACGGTGAGCTGCCGTCCACTGTGGAGGTGGCTTCTCCTCCACTTCTCCCATGGCCACTGTGCC
AGGCATCTGGGGCAGGGACAGCCCTCTGAACAGGAACGCCTACCTTTTCCAGCCCAGAAGTGAAGTCA
CAGCACCTAAAACTCTGACAATGCCTGGGACCTTGCTTTTGACAGTACCAACTGACCTGAGGAGCCCGG
GACCATCGGGCCAGCCACAGACCCCTAACCTTGAGGGAACCCAGAGCCCTGGGTTGCTGCCTACACCAGC
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GGTGACCCCGCAGATCCACTGCCTGCCAGGAATGCCAGCTGGCAAGTAGGAACTGGAGCCAGTGTTCAC
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CGTAGCCGTCCCAGCCTGCCGCCATTGTCTCTGAGGCCCTGTGCTGCCTGGCGCACGGGCAACTGG
AGTAAGTGCTCTCGAACTGTGGTGGAGGTTCTCTACAAGGGATGTACAGTGTGTGGATACACGGGACC
TCCGGCCACTGCGGCCCTTTCACTGCCAGCCCGGGCCTACCAAGCCACCAACCGTCAGCTCTGTGGGAC
CCAGCCCTGCCTCCCCTGGTACACCTCCTCTGGAGAGAGTGTTCGAGGCTTGTGGTGGTGGTGAACAG
CAGCGACTGGTGACATGTCCAGAGCCAGGGCTCTGTGAGGAGTGTGAGACCAACAACAGCAGGCCCT
GCAACACCCACCCCTGCACACAGTGGTGGTAGGGCCCTGGGTGAGTGTGAGCCCTGCGGTGGTGG
TGTTGAGCGGCTGTGGTGTGTAACACTCAGACCGGCTTGGCAGAGGAAGACAGTACCTGTGT
AGCCATGAGGCGTGGCCTGAGAGCTCACGGCCATGTGCCACTGAGGACTGTGAAGTGGTTGAACCCAC
GTTGTGAGCGGGATCGCCTGTCTTCAATTTCTGTGAGACGCTGCGCCTGCTGGGCCGCTGCCAGCTGCC
CACCATCCGCGCTCAGTGTGCCGTTTGTGCCCCACTCAGTCGTGGTGTCCCTTCCGAGGCCATCAG
CGGGTAGCCAGACGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja3235_e02.zip
Restriction Sites:	Sgfl-MluI
ACCN:	NM_001003911
Insert Size:	4848 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001003911.2 , NP_001003911.2
RefSeq Size:	5424 bp
RefSeq ORF:	4848 bp
Locus ID:	108153
Cytogenetics:	9 E3.1
Gene Summary:	This gene encodes a member of "a disintegrin and metalloproteinase with thrombospondin motifs" (ADAMTS) family of multi-domain matrix-associated metalloendopeptidases that have diverse roles in tissue morphogenesis and pathophysiological remodeling, in inflammation and in vascular biology. The encoded preproprotein undergoes proteolytic processing to generate an active, zinc-dependent enzyme that degrades cartilage oligomeric matrix protein. The deficiency of the encoded protein decreases atherosclerosis in genetically hyperlipidemic mice and in response to vascular injury. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, May 2016] Transcript Variant: This variant (1) encodes isoform (1). This isoform (1) may undergo proteolytic processing similar to isoform 4.