

Product datasheet for **MC222688**

Adamts5 (NM_011782) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts5 (NM_011782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adamts5
Synonyms:	9530092O11Rik; ADAM-; ADAM-TS5; ADAMTS1; ADAMTS11; ADMP-2; AI481094; ASMP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222688 representing NM_011782
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGCTCGAGTGGCGCCCTTGTGCTGCTACTGCTGCTGAGCGGCTCCTGCCTGTCCCTGGCCG
 CTGACAGCCCCGCGCGGCACCTGCCAGGATAAAACCAGGCAGCCTCAGGCTGCAGCAGCGGCCCGCA
 GCCGGACCAGCCGAGGGGAGGAAACACGGGAGCGAGGCCATTTACAACCCCTTGCCCGGCAGCGCAGG
 AGCGGGCGGGTGGTCCAGAATATAGACAACTCTACTCTGGCGGTGGCAAAGTGGGTACCTTGTCTACG
 CGGGCGGCCGGAGGTTCTGCTGGACCTGGAGAGAGATGACACAGTGGGTGCTGCTGGTAGCATCGTTAC
 TGCAGGAGGAGGGCTGAGCGCATCTCTGGCCACCGGGTCACTGTTTCTACAGAGGCACCGTGGACGGC
 AGCCCTCGATCCCTAGCTGTCTTTGACCTCTGCGGGGTCTCGATGGCTTCTTTCAGTCAAGCATGCGC
 GCTACACTCTAAAGCCACTCCTGCGTGGTCTGGGCAGAGTATGAACGAATTTATGGGGATGGATCTTC
 CCGCATCTGCATGTCTACAACCGGAGGGCTTTAGCTTCGAGGCCCTGCCGCCACGCGCCAGTTGGCAG
 ACTCCTGCATCCCATCTGGGCCCAAGAGAGCCCTCGGTGCACAGTAGATCTAGGAGACGCTCAGCGC
 TGGCCCCGCAGCTGCTGGACCACTCAGCTTCTCGCCATCTGGGAACCGGGACCTCAGACTTGGTGGAG
 GCGTAGGCGCCGTTCCATCTCCAGGGCCCCCAGGTGGAGCTCCTCTTGGTGGCTGACTCGTCCATGGCC
 AGGATGTATGGGCGGGCCTGCAGCATTACCTGCTGACCTGGCCTCCATCGCCAACAGGCTGTACAGTC
 ATGCAAGCATTGAGAACCACATCCGCTGGCGGTGGTGAAGTGGTGGTCTGACGGACAAGGACACGAG
 TCTGGAGGTGAGCAAGAATGCGGCCACGACCCTCAAGAACTTTGCAATGGCAGCACAACATAACCAG
 CTAGGGGATGATCAGGAAGCACTACGATGCAGCCATCCTGTTACCCGAGAGGATTTATGTGGGCATC
 ATTCATGTGACACCCCTGGGAATGGCAGAGCTTGGGACCATATGTTCTCGGAGCGCAGCTGTCATTGAT
 TGAAGATGATGGCTCCATGCAGCCTTCACTGTGGCTCATGAAATGGGCATCTACTTGGCTTTCTCAT
 GACGATTCCAAATTTCTGTGAAGAGAATTCGGTACTACAGAAGACAAGCGTTTAAATGTCTTCAATCCTTA
 CCAGCATCGATGCATCCAAGCCCTGGTCCAATGCACGTCAGCCACCATCACAGAATTCCTGGATGATGG
 TCATGGTAATTTGCTAGACCTACCACGGAAGCAGATTTTGGTCCCAGGAACTCCCAGGACAGACC
 TACGATGCCACCCAGCAGTGCAACTTGACATTTGGGCCTGAGTACTCGGTGTGCCCTGGCATGGATGTCT
 GTGCGCGGCTGTGGTGTGCTGTGGTGCGCCAAGGCCAAATGGTGTGTCTGACCAAGAAGCTGCCGGCTGT
 GGAGGGCACTCCCTGTGGGAAGGAAGAGTCTGCCTTCAAGGCAATGTGTGGACAAAATAAGAAAAAA
 TATTACTCGACATCAAGCCATGAAATTTGGGGTCTGGGGCCCTGGGGTCACTGTTCTCGCTCATGCG
 GGGGAGGAGTGCAGTTTGCCTACCGCCATTGTAATAACCCCTGCACCTCGAAACAGTGGCCGCTACTGCAC
 AGGGAAGAGGGCCATATACCGTTCTGCAGTGTTACACCTGCCACCCAATGGTAAATCTTTTCGCCAT
 GAGCAGTGTGAAGCCAAAATGGCTATCAGTCTGATGCAAAAGGAGTCAAAACATTTGTAGAATGGGTTT
 CCAAATATGCAGGTGTCCTGCCGCAGATGTGTGCAAGCTTACCTGCAGAGCTAAGGGCAGAGGCTACTA
 TGTGGTCTTTTCCAAAGGTTACGGATGGGACTGAATGCAGGCCGTACAGCAACTCTGTGTGTGCCGA
 GGACGGTGTGTGAGAAGTGGATGTGACGGCATTATTGGCTCAAAGCTACAATATGACAAGTGTGGAGTGT
 GCGGAGGGGATAACTCCAGTTGTACAAAGATTATCGGAACCTTCAATAAAAAAAGCAAGGGTTATACTGA
 CGTTGTGAGGATCCCTGAAGGAGCAACCCACATAAAAGTCCGACAGTTCAAAGCCAAAGACCAGACTAGA
 TTCATGCCTACTTAGCCCTGAAGAAGAAAACCTGGCGAGTACCTTATCAATGGCAAGTACATGATTCCA
 CTTCAGAGACCATCATCGACATCAATGGTACCGTGCATGAACTACAGTGGATGGAGCCACAGAGATGATTT
 TTTACATGGGATGGGCTATTTCAGCCACAAAAGAAATCCTGATCGTGCAGATCCTTGCCACAGACCCAAT
 AAAGCGTAGACGTCCTGTACAGCTTTTTTGTCCCAAGAAGACCACTCAAAAAGTAAACTCTGTATCA
 GCCATGGCAGCAACAAGGTGGGACCACACTCTACACAGCTGCAGTGGGTGACAGGTCCATGGCTGGCCTG
 CTCAGGACCTGTGACACAGGCTGGCACACTAGGACCGTGCAGTGCAGGATGGAACAGGAAATAGCT
 AAAGATGCCTTCTCTCAGAGGCCTTCTGCATTTAAGCAATGTCTGCTGAAGAATGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3912_a03.zip

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_011782
Insert Size:	2793 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>
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.
RefSeq:	NM_011782.2 , NP_035912.2
RefSeq Size:	8104 bp
RefSeq ORF:	2793 bp
Locus ID:	23794
UniProt ID:	Q9R001
Cytogenetics:	16 48.34 cM
Gene Summary:	<p>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 aggrecanase enzyme. Mice lacking the encoded protein are protected from surgery-induced osteoarthritis and antigen-induced arthritis. [provided by RefSeq, May 2016]</p>