

Product datasheet for **RR210384**

Adamts5 (NM_198761) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts5 (NM_198761) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adamts5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210384 representing NM_198761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTACTCGAGTGGCGTCTTCTGCTGCTACTGCTGCTGCTGCGCGTCTGCCTGGCCCTGGCGG
 CTGACAACCCCTGCCGCGCACCTGCCCAGGATAAAACCAGGCAGCCTCGGGCTGCTGCAGCGGCCGCCA
 GCCCGACCAGCGCAGTGGGAGGAAACACAGGAGCGGGCCATCCGCAACCCCTTGCCAGGCAGCGCAGG
 AGCAGCGGGCTGGTGCAGAAATAGACCACTCTACTCTGGCGGTGGCAAAGTGGGTACTTTGTCTACG
 CGGGCGGCCGGAGGTTCTGCTGGACCTGGAGAGGGATGACACAGTGGGTGCTGCTGGTGGCATCGTTAC
 TGCAGGAGGAGGGCTGAGCGCATCTCTGGCCACAGGGTCACTGCTTCTACAGAGGCAGTGTGGACGGC
 AGCCCTCGATCCCTAGCTGTCTTTGACCTCTGTGGGGTCTCGATGGCTTCTTCGAGTCAAGCATGCGC
 GCTACACTCTGAAGCCGCTCTTGCCTGGTCTGGGCAGAGTCCGAACGAGTTTACGGGGATGGGTCTTC
 ACGCATCTGCATGTCTACACCCGCGAGGGCTTCACTTTCGAGGCCCTGCCGCCACGCACCAGTTGCGAG
 ACTCCAGCGTCCCGTCTGGGCCCAAGAGAGCCCTCGGTGCACAGTAGTTCTAGGCGACGCACAGAAC
 TGGCACCCGAGCTGCTGGACCATTACAGTTTCTCGCCAGCTGGGAACCGGGACCTCAGACGTGGTGGAG
 GCGGAGGCGCGTTCATCTCCAGGGCCCGCCAGGTGGAGCTCCTCTTGGTGGCTGACTCTTCCATGGCC
 AAGATGTATGGGCGGGCCTGCAGCATTACCTGCTGACCTGGCCTCTATTGCCAACCGGCTGTACAGTC
 ATGCAAGCATCGAGAACCACATCCGCTGGCCGTAGTAAAGTGGTGGTCTGACCGACAAGAGTCTGGA
 GGTGAGCAAGAACCGGCCACGACCCTCAAGAATTTTGCAAATGGCAGCACCAACAACCAGCTAGGT
 GATGACCATGAGGAGCACTACGATGCAGCCATCTGTTACCAGAGAGGATTTATGTGGGCATCATTCA
 GTGACACCCCTGGGAATGGCAGACGTTGGACCATATGTTCTCCGAGCGCAGCTGCGCTGATTGAAGA
 TGATGGCCTCCATGCAGCTTCACTGTGGCTCAGGAAATGGACATCTACTTGGCCTCTCTCAGCAGAT
 TCCAAATCTGTGAAGAGAATTTGGTTCTACAGAAGACAAGCGTTTAAATGTCTTCAATCCTTACCAGCA
 TTGATGCATCCAAGCCCTGGTCCAAATGCACCTTACGCCAGATCACAGAATTTCTGGATGACGGTATGG
 TAACTGTTTACTAGATGTACCACGGAAGCAGATTCTGGGCCCGAGGAACTCCAGGACAGACCTATGAT
 GCCACCCAGCAGTGAACCTTACATTTGGGCTGAATATTCTGTGTGCCCTGGCATGGATGTCTGTGCAC
 GGCTGTGGTGTGCTGTGGTGCGCCAAGGCCAAATGGTGTGTCTGACCAAGAAGTTGCCTGCCGTGGAGGG
 CACTCCCTGTGGTAAAGGAAGAATCTGCCTGCAAGGGAAATGTGTGGACAAAACCTAAGAAAAATATTAC
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 GAGTACAGTTTGCTACCGCATTGCAATAACCCCGCACCTCGAAACAGTGGCCGCTACTGCACAGGGAA
 GAGGGCCATATACCGTTCCTGCAGTGTACATACCCTGCCACCTAACGGCAAATCTTTCGCCACGAGCAG
 TGTGAAGCCAAAATGGTATCAGTCCGATGCAAAAGGAGTCAAAACATTTGTAGAATGGTTCCAAAAT
 ACGCAGGTGTCTGCCGCGAGCAGTGTGCAAGCTTACGTGCAGAGCTAAGGGCACTGGCTATTACGTGGT
 CTTTTCTCAAAGGTTACAGATGGGACAGAATGTAGACCTACAGCAACTCCGTGTGTGTCCGAGGAAGG
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 AGACCATCATCGACATCAATGGTACCGTATGAACTACAGTGGGTGGAGTACAGAGATGATTTTTTACA
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 TTAGACGTCCGTTACAGCTTTTTTGTCCCAAGAAGACCACTCAAAAAGTGAATTCGGTCATTAGCCACA
 GCAGCAACAAAGTGGGACTACACTCCCCGAGCTACAGTGGGTGACAGGCCCTGGCTGGCTGCTCTAG
 GACCTGTGACACAGGCTGGCACACCAGGACCGTGCAGTCCAGGATGGAACAGGAAATAGCTAAGGGA
 TGCATTCTCTCAGAGGCCCTTTCGCTTAAAGCAATGTTTGTCTCAAGAAATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RR210384 representing NM_198761
 Red=Cloning site Green=Tags(s)

MLLEWASLLLLLLLLCASCLALAADNPAAAPAQDKTRQPRAAAAAAQPDRQWEETQERGHPOPLARQR
 SSSLVQNIQQLYSGGGKVGYL VYAGRRFLDLERDDTVGAAGGIVTAGGGLSASSGHRGHCFYRGTVDG
 SPRSLAVFDLCGGLDGFFAVKHARYTLKPLL RGSWAESERYVDGSSRILHVYTRREGFSFEALPPTSCE
 TPASPSGPQESPSVHSSRRRTELAPQLLDHSAFSPAGNAGPQTWRRRRRSISRARQVELLLVADSSMA
 KMYGRGLQHYLLTLASIANRLYSHASIENHIRLAVVKVVVLTDKSLEVSKNAATLKNFCKWQHQNQLG
 DDHEEHYDAAILFTREDLCGHHSCDTLGMADVGTICSPERSCAVIEDDGLHAAFTVAHEIGHLLGLSHDD
 SKFCEENFGSTEDKRLMSSILTSIDASKPWSKCTSATITEFLDDGHGNCLLDVPRKQILGPEELPGQTYD
 ATQQCNLTFGPESVCPGMDV CARLWCAVVRQGMVCLTKKLPVEGTPCGKGRICLQKGCVDKTKKKYY
 STSSHGNWGSWGPWGQCSRSCGGGVQFAYRHCCNPAPRNSGRYCTGKRAIYRSCSVIPCPNGKSF RHEQ
 CEAKNGYQSDAKGVKTFVEWVPKYAGVLPADVCKLTCRAKGTGYVVVFPKVTDTGTECRPYSNSVCRGR
 CVRTGCDGIIGSKLQYDKCGVCGDNNSSCTKIIGTFNKKSKGYTDVVRIPGATHIKVRQFKAKDQTRFT
 AYLALKKKTGEYLINGKYMISTSETIIDINGTMNYSGWSHRDDFLHGMGYSATKEILIVQILATDPTKA
 LDVRYSFVPPKTTQKVNSVISHSSNKVGLHSPQLQWVTGPWLACSRCTDGTGWHTRTVQCQDGNRKLAKG
 CILSQRPSAFKQCLLKKC

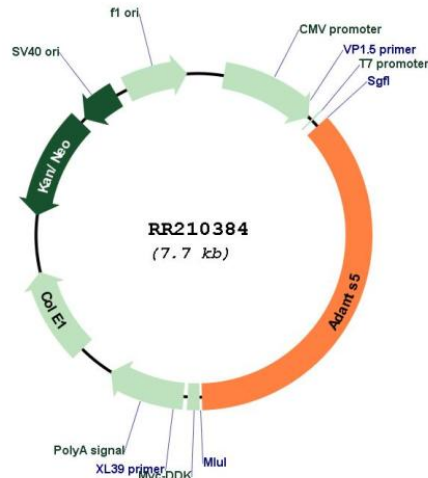
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_198761

ORF Size: 2784 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_198761.1](#), [NP_942056.1](#)

RefSeq Size: 2787 bp
RefSeq ORF: 2787 bp
Locus ID: 304135
Cytogenetics: 11q11
MW: 101.8 kDa
Gene Summary: human homolog catalyzes the degradation of aggrecan, a component of cartilage extracellular matrix [RGD, Feb 2006]