

Specifications:

Gene:	rAdamts5
Accession:	NP_942056
Insert size:	2800bp
Concentration:	10µg at 0.2µg/µL

rADAMTS5 cDNA Plasmid

Adamts5 ADAM
metallopeptidase with
thrombospondin type 1
motif, 5 [*Rattus norvegicus*
(Norway rat)]

Summary:

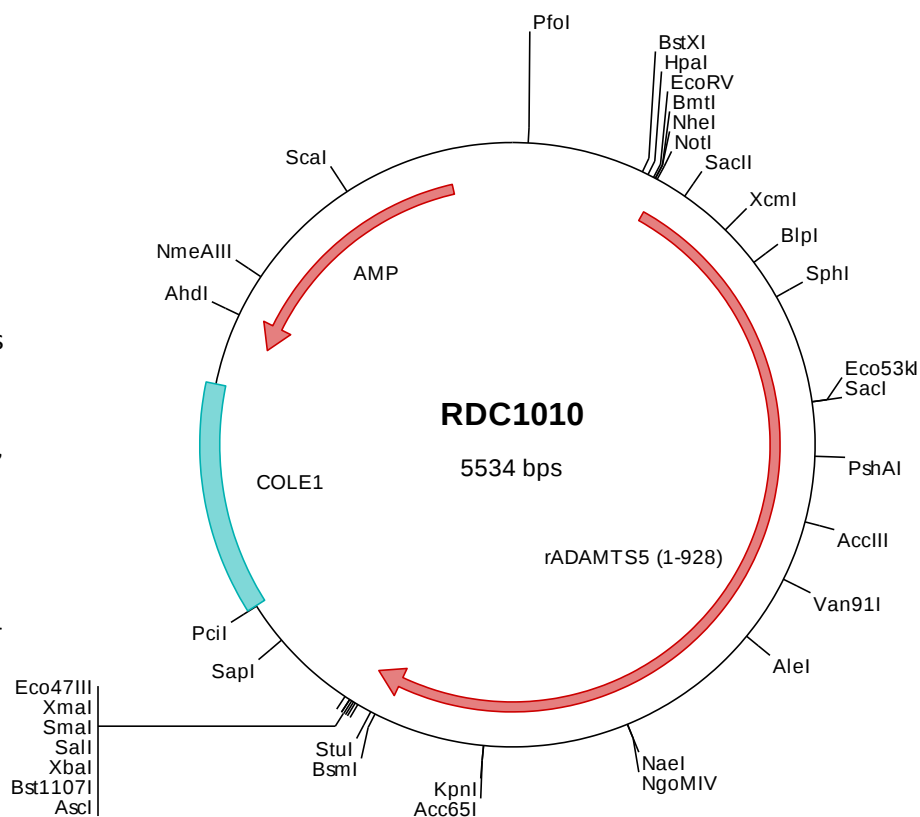
ADAMTS5 is a member of the family of secreted zinc proteases with a multi-domain structure. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. ADAMTS5 contains two C-terminal TS motifs. ADAMTS5 is an active protease effectively cleaving α 2-Macroglobulin, Aggrecan, and Brevican, and is inhibited by TIMP-3 with inhibition constants in the subnanomolar range. It may play a role in arthritic disease.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC1010 Plasmid DNA Sequence

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101    tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201    ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcggggc tcttcgctat
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701    cgggtgggcaa agtgggtctac cttgtctacg cgggcgggcg gaggttctcg ctggaccttg agagggtatg cacagtgggt gctgctggtg gcatcgttac
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1001   atgggtcttc acgcatcctg catgtctaca ccgcgagggg cttcagcttc gaggccctgc cggccacgcac cagttgcgag actccagcgt ccccgctctg
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1301   ggccggggcct gcagcattac ctgctgaccc tggcctctat tgccaacggg ctgtacagtc atgcaagcat cgagaaccac atccgctcgg ccgtagttaa
1401   agtgggtgtg cgtacggaca agagtctgga ggtgagcaga aagttgcctg cggcttggca gaacttttgc aaatggcgag accaaccaca ccagctaggt
1501   gatgaccatg aggagcacta cgtatgcagc atoctgttca ccagagagga ttatgtggg catcattcat gtgacacctt gggaatggca gacgttgagg
1601   ccatatgttc tccggagcgc agctgcgctg tgattgaaga tgatggcctc catgcagctt tcaactgtgg tcacgaaatt ggacatctac ttggcctctc
1701   tgcagtggtg tccaaattct gtgaagagaa ctttggttct acagagagca agccttcaat gtcttcaatc cttaccagca cagcctctg
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1901   tcccaggaca gacctatgat gccaccagc agtgcacatt gacatttggg cctgaatact ctgtgtgcgc tggcatggat gctctgtcac ggtctgtgtg
2001   tctgtgtgtg cggcaaggcc aagtgtctg tctgccaag aagttgcctg cgttggaggc cactccctgt gggaaaggaa gaatctgcct gcaaggcaaa
2101   tgtgtggaca aaactaagaa aaaattattc tcgacatcaa gccatggaaa ttgggggtcc tggggccctt ggggtcagtg ggggtcagtg tgcggggag
2201   gactacagtt tgctaccgc cattgcaata accccgcacc tcgaacagtg ggcgcgtact gcacagggaa gaggggcata taccgttctt gcagtgtcat
2301   accctgcctg cctaacggca aatcttccg ccacgagcag tgtgaagcca aaatggctc tcagtcgat gcaaaaaggag tcaaaacatt tgtagaatgg
2401   gttcccaaat acgaggtgt cctgcggcca gacgtgtgca agcttacgtg cagagctaa ggcactggct attacgtggg cttttctcca aaggttacag
2501   atgggacaga atgtagacct tacagcaact ccgtgtgtgt ccgaggagg tgogtgagaa cgggtgtgta cggcatcatc ggtcctaaagc tacagtatga
2601   caagtgtgga gtgtgtgggt gggaataact cagtgtgtca aagattatcg gaaccttcaa taaaaaaagc aagggttata ctgacgttgt gaggtaccc
2701   gaaggagcaa cccacataaa agtccgacag ttcaaaagca aagaccagac tagattcaact gcttacttag ccttaagaa gaaaactggc gagtacotta
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2901   tggatgtggc tattcagcca caaaggaaat tctgtattg cagatctctt caacagaccc aactaaagca ttacagctcc gttacgtctt ttttctccc
3001   aagaagacca ctcaaaaagt gaattccgtc attagccaca gcagcaacaa agtgggacta cactccccgc agctacagtg ggtgacaggc cctgtgtg
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3401   gccaatagag tgagctaac cacttaatt gcgttgcct cactgcctgc ttccagctgc ggaaacctgt cgtgccagct gcattaatga atccggccaac
3501   cgcgggggag aggcggcttt cgtattgggc gctctccgc actcagctgc ctcgctcgtg cgttcggctg cggcgagcgg ccgcagcggc taccagctca
3601   ctcaaggcgt gtaatacctg tatccacaga atcaggggat aacgcagagc agaacattgt agcaaaaagg cagcaaaaagg ccaggaacccg taataaggcc
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5201   atgtaaccca ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcggttct gggtagcaaa aaacaggaa gcaaaaagg gcaaaaaagg
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> RDC1010 Translated Insert Sequence

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301    lyshasienh irlavvkvvv ltdkslevsk naattlkncf kwqghnqlg ddheehydaa ilftrdclg hnsdcllma dvgticsper scavieddgl
401    haaftvahei ghllglshdd skfreenfgs tedkr1mssi ltsidaskvp sktsatite flddghncl ldvprkqilg peelpgqtyd atqcnltfg
501    peysvcpgmd vcarlwcaav rqqgmvlctk klpavegtpc gkgriclgk cvdtkkkky stssghnws wgpwgqcsrs cgggvqfayr hcnnpaprns
601    gryctgkrai yrsccvipcp pngksfrheq ceakngyqsd akgvktfwev vpkagvlpa dvckltcrak gtgyyvfvsp kvtdgtercp ysnsvcvrgr
701    cvrtgcdgii gsklgydkcg vcgdnssct kiigtfnkks kgytdvvrip egathikvrq fkakdqtrft aylalkkktg eylingkymi stsetididn
801    gtvnmysgws hrddflhmg ysatkeiliv qilatdptka ldvrysffvp kkttkqvnsv ishssnkvgl hspqlqwtg pwlacsrtdc tgwhtrtvqc
901    qdgnrklakg cilsqrpsaf kqcllkkc
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