

Product datasheet for **SC115752**

ADAMTS5 (NM_007038) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS5 (NM_007038) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAMTS5
Synonyms:	ADAM-TS 5; ADAM-TS5; ADAM-TS 11; ADAMTS-5; ADAMTS-11; ADAMTS11; ADMP-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115752 sequence for NM_007038 edited (data generated by NextGen Sequencing)

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ATGCTGCTCGGGTGGGCGTCCCTGCTGCTGTGCGCGTTCCGCCTGCCCTGGCCGCGGTC
GGCCCCGCGCGACACCTGCCAGGATAAAGCCGGGCAGCCTCCGACTGCTGCAGCAGCC
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CAGTGCCAGGATGAAAACCGGAAGTTAGCAAAAAGGATGTCCTCTCTCCAAAGGCCTTCT
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Clone variation with respect to NM_007038.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007038 unedited
 CCCATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGCAGACACGCC
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 GGGCGGAGGCTGCGCGCACCAAGTTGCCAGCCCGGTGCGCGGTACCTTTCTTACTTTTC
 TTGAAACAGCGATCGTGCCTGCATTTGGTGGTTTTTGGTTTTTGTTTTTTCTTTTTCC
 CGTATTTGCTGAATCTCCACTATCCGACTTTTTTTTTTAAATCTTTTCTTCCCCCCC
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 TT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007038 unedited
 ATCGAAGTTTTTTTTCTTTTTTTTTATAGAAATTATATGGGTATTTAATAGAACCAG
 GGGATATAAAGTGACATACCAAGGGAGAATGTATTTACAACAGTAAGAAGAAGCTACTG
 TGTATTATGGGTGAAAATGATTATGATACCATTAAAGACATTCTATCAGAGGTAGGTGAC
 AAGGGGGAGACAGTTCTGCCATTTCAAATGTCCCTGATTTTACATTCATCAGTGTTC
 TTGTAAGCCCAGGGGATGTTCAATAACTCCAAGTTTTTCTATATTGCAAGGTCACCACT
 GTCACGTGAAGCAGTGCACATCTCTTTGGTCACAGAGAGCAGATTCTGCCATAATTG
 GACTCCTGTTGACAAATGCTACTGAAGCATGACTTTCTGTGCGTTAGGTAGACCTCCTGTT
 CACCACGACTGCATCAGTGTGAATCCTCCAGTTATCTTTGTGCATAAGATCATAACCAC
 AGGCTAACATTTCTTCAACAAGCATTGCTTANACGCAGAAGGCCTTTGGGAGAGAGGACA
 TCCTTTTGTAACTTNCGGTTTTCCATCTGGCACTGCACCGTTTNTGGTGTGCCAACT
 GTGTACAGGTCTAGAGCAGGCGAGCCATGGGCCGTGACCCACTGCGGCTGCGAAGTG
 TGTGATCCCACTTTATTGCTGNCATGACTAGTGACAGAGTTTACTTTGGAGTGGACTTC
 CTGGGGACAAAAAGCTATTACGGAACCTAAGGGTTTATGGGGTCTGTTGCAGAATT
 CTGCACTATTAATAATTTCTTCCGCGGCCNGATTACCCCTCCCATGCCAGAAAGTCTC
 CCTGTG

Restriction Sites:

NotI-NotI

ACCN:

NM_007038

Insert Size:

4000 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.

RefSeq: [NM_007038.2](#), [NP_008969.1](#)

RefSeq Size: 9046 bp

RefSeq ORF: 2793 bp

Locus ID: 11096

UniProt ID: [Q9UNA0](#)

Cytogenetics: 21q21.3

Domains: tsp_1, Reprolysin, ACR

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: 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) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and functions as an aggrecanase that cleaves aggrecan, a major proteoglycan of cartilage, and may mediate cartilage destruction in osteoarthritis. [provided by RefSeq, Feb 2016]