

Product datasheet for SC120706

ADAMTS3 (NM_014243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS3 (NM_014243) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAMTS3
Synonyms:	ADAMTS-4; HKLLS3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120706 sequence for NM_014243 edited (data generated by NextGen Sequencing)

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ATGGTTCTCCTGTCACCTTTGGTTGATAGCAGCCGCTCTGGTAGAGTTAGGACTTCAGCT
GATGGACAAGCTGGTAATGAAGAAATGGTGCAAATAGATTTACCAATAAAGAGATATAGA
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CCATGTA AACAGCTGTGGTGTAGCCATCCTGATAATCCCTACTTTTGTAAAGCTAAAAAG
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Clone variation with respect to NM_014243.2
413 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014243 unedited
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 TTATGGGCACATCCACCAGCAGCTGAATGAAACAATGAGACGCCGAGACACGCGGGAGA
 AAACGATTACACTATCGGAGTACTGCTGGGAGTGGATGACTCTGTGGTCCGTTNCCATGG
 GCAAGACACGTTCAAACCTACCTTCTGACCTTATTGAACTTGTAATGAAATTACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014243 unedited
 AGCTCTGGANCGCGGCCGAATCTACAATCGAGTTTTTTTTTTTTTTTTTATATTTT
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 GATAAAAAGGAATTTTTAGCTTAGTAGAAAAGAAAGCCCAAAGGTCAGAAGTATAATGAA
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 AAGTTCCTGCACAAAGTAGCAGCAATCTTTAGAGGTATAGAGTCAATAGTTAAAGCTGT
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 CAATTTAATGTTTCCTTGAAGGGAACAAGTCATCAACTTAATATNAACTACTAAAAATG
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 TGGCTAAAGGTCATGCACAGAAAAAGCTGCATCTCTATTATGCTCTCTACTCCCAA
 AATGTATCGTCTACGGTCCTTTTACCCTATAATCTCTCCGAAACAAATCACTTAATA
 ATATTTAGTTTGGATTTATGAAAGTACTTCACCACCCCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_014243

Insert Size:

4600 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](#)

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_014243.1](#), [NP_055058.1](#)

RefSeq Size: 5821 bp

RefSeq ORF: 3618 bp

Locus ID: 9508

UniProt ID: [O15072](#)

Cytogenetics: 4q13.3

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 protease. This protease, a member of the procollagen aminoproteptidase subfamily of proteins, may play a role in the processing of type II fibrillar collagen in articular cartilage. [provided by RefSeq, Feb 2016]