

Product datasheet for **SC304070**

ADAMTS2 (NM_014244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ADAMTS2
Synonyms:	ADAM-TS2; ADAMTS-2; ADAMTS-3; EDSDERMS; NPI; PC I-NP; PCI-NP; PCINP; PCPNI; PNPI
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_014244, the custom clone sequence may differ by one or more nucleotides

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ATGGATCCGCCGGGAGCCGCTCGCCGCTGCTCTGCCCCGCGTGCTGCTGCTGCTG
CTGCTGCTGCCGCCGCCGCTCCTGCCGCCGCCGCCGCCGCCGCGAACGCCAGGCTCGCC
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GACAACCCCTACTTTTGCAAGACCAAGAAGGGGCCCCCTTGGACGGGACTATGTGTGCA
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GTAGATGAACCTACAAAATCCATGGCCTGGAAGATGAAGTCCAGCCACCCAACCTAATC
CCTCGACGACCGAGCCCTATGAAAAGACCAGAAACCAAGAATCCAAGAGCTCATTGAT
GAGATGCGGAAGAAAGAGATGCTCGGAAAGTTCTAA

Restriction Sites:

Please inquire

ACCN:

NM_014244

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014244.1](#), [NP_055059.1](#)

RefSeq Size: 3636 bp

RefSeq ORF: 3636 bp

Locus ID: 9509

UniProt ID: [O95450](#)

Cytogenetics: 5q35.3

Protein Families: Druggable Genome

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 procollagen N-proteinase. This proteinase excises the N-propeptide of the fibrillar procollagens types I-III and type V. Mutations in this gene cause Ehlers-Danlos syndrome type VIIC, a recessively inherited connective-tissue disorder. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.