

Product datasheet for **SC306120**

ADAMTS14 (NM_139155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS14 (NM_139155) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAMTS14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306120 representing NM_139155. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGCTCCACTCCGCGCGCTGCTGTCTACCTGCTGCCTTTGCACTGTGCGCTCTGCGCCGCCGCGGGC
AGCCGGACCCAGAGCTGCACCTCTCTGGAAAGCTCAGTACTATGGTGTGACAGTGCCCTGCAGCACA
GACTTTCCGGGACGCTTCTCTCCACGTGGTGTCTGGCCAGCAGCAGCTCTGCAGGGAGCATGGTA
GTGGACACGCCACCCACACTACCACGACACTCCAGTCACTCCGGGTGGCTCGCAGCCCTCTGCACCCA
GGAGGGACCTGTGGCCTGGCAGGGTGGGGGCCACTCCCTCTACTTCAATGTCACTGTTTTCGGGAAG
GAACCTGCACTTGCGCCTGCGGCCCAATCGGAGTTGGTAGTGCCAGGATCCTCAGTGGAGTGGCAGGAG
GATTTTCCGGAGCTGTTCCGGCAGCCCTTACGGCAGGAGTGTGTGTACACTGGAGGTGTCACTGGAATG
CCTGGGGCAGCTGTTGCCATCAGCAACTGTGACGATTGGCGGGCCTCATCCGCACAGACAGCACCGAC
TTCTTCATTGAGCCTCTGGAGCGGGGCCAGCAGGAGAAGGAGGCCAGCGGAGGACACATGTGGTGTAC
CGCCGGGAGGCCGTCCAGCAGGAGTGGGCAGAACCTGACGGGGACCTGCACAATGAAGCCTTTGGCCTG
GGAGACCTTCCCAACCTGCTGGCCTGGTGGGGACAGCTGGGCGACACAGAGCGGAAGCGGCGCAT
GCCAAGCCAGGCAGCTACAGCATCGAGGTGCTGCTGGTGGTGGACGACTCGGTGGTTCGCTTCCATGGC
AAGGAGCATGTGCAGAACTATGCCTCACCTCATGAATATCGTAGATGAGATTTACCACGATGAGTCC
CTGGGGTTTCATATAAATATTGCCCTCGTCCGCTTGATCATGGTTGGCTACCGACAGTCCCTGAGCCTG
ATCGAGCGCGGAACCCCTCACGCAGCCTGGAGCAGGTGTGTGCTGGGCACACTCCAGCAGCGCCAG
GACCCAGCCACGCTGAGCACCATGACCACGTTGTGTTCTCACCCGGCAGGACTTTGGGCCCTCAGGT
ATGCAAGGGTATGCACCCGTCCTGACATGTGTACCCCTGAGGAGCTGTGCCCTCAACCATGAGGAT
GGCTTCTCCTCAGCCTTCGTGATAGCTCATGAGACCGCCACGTGCTCGGCATGGAGCATGACGGTCAG
GGGAATGGCTGTGCAGATGAGACCAGCTGGGCAGCGTCATGGCGCCCTGGTGCAGGCTGCCTTCCAC
CGCTTCCATTGGTCCCGCTGCAGCAAGCTGGAGCTCAGCCGCTACCTCCCTCTACGACTGCCTCCTC
GATGACCCCTTTGATCCTGCCTGGCCCCAGCCCCAGAGCTGCCTGGGATCAACTACTCAATGGATGAG
CAGTGGCGCTTTGACTTTGGCAGTGGCTACCAGACCTGCTTGGCATTGAGGACCTTTGAGCCCTGCAAG
CAGCTGTGGTGCAGCCATCCTGACAACCGTACTTCTGCAAGACCAAGAAGGGGGCCCGCTGGATGGG
ACTGAGTGTGACCCGGCAAGTGGTGTCAAAGGTCACTGCATCTGGAAGTCGCCGGAGCAGACATAT



View online »

```

GGCCAGGATGGAGGCTGGAGCTCCTGGACCAAGTTGGGTTCATGTTTCGGGTCATGTGGGGGCGGGGTG
CGATCCCGCAGCCGAGCTGCAACAACCCCTCCCGAGCCTATGGAGGCCGCTGTGCTTAGGGCCCATG
TTCGAGTACCAGGTCTGCAACAGCGAGGAGTGCCCTGGGACCTACGAGGACTTCCGGGCCAGCAGTGT
GCCAAGCGCAACTCCTACTATGTGCACCAAGATGCCAAGCACAGCTGGGTGCCCTACGAGCCTGACGAT
GACGCCCAGAAGTGTGAGCTGATCTGCCAGTCGGCGGACACGGGGGACGTGGTGTTCATGAACCAAGGTG
GTTACGATGGGACACGCTGCAGCTACCGGGACCCATACAGCGTCTGTGCGCGTGGCGAGTGTGTGCTT
GTCCGCTGTGACAAGGAGGTGGGTCCATGAAGCGGATGACAAGTGTGGAGTCTCGGGGGTGACAAC
TCCCACTGCAGGACTGTGAAGGGGACGCTGGGCAAGGCCCTCCAAGCAGGCAGGAGCTCTCAAGCTGGTG
CAGATCCAGCAGGTGCCAGGCACATCCAGATTGAGGCACTGGAGAAGTCCCCCACCACGATTGTGGTG
AAGAACCAGGTACCGGCAGCTTCATCCTCAACCCCAAGGGCAAGGAAGCCACAAGCCGGACCTTACC
GCCATGGGCTGGAGTGGGAGGATGCGGTGGAGGATGCCAAGGAAAGCCTCAAGACCAGCGGGCCCTG
CCTGAAGCCATTGCCATCCTGGCTCTCCCCCAACTGAGGGTGGCCCCGAGCAGCCTGGCCTACAAG
TACGTCATCCATGAGGACCTGCTGCCCTTATCGGGAGCAACAATGTGCTCCTGGAGGAGATGGACACC
TATGAGTGGGCGCTCAAGAGCTGGGCCCCCTGCAGCAAGGCCTGTGGAGGAGGGATCCAGTTCACAAA
TACGGCTGCCGGCGCAGACGAGACCACCATGGTGCAGCGACACCTGTGTGACCACAAGAAGAGGCC
AAGCCCATCCGGCGCGCTGCAACCAGCACCCGTGCTCTCAGCCTGTGTGGGTGACGGAGGAGTGGGGT
GCCTGCAGCCGGAGCTGTGGGAAGCTGGGGGTGCAGACACGGGGGATACAGTGCCTGCTGCCCTCTCC
AATGGAACCCACAAGGTTCATGCCGGCCAAAGCCTGCGCCGGGACCGGCCTGAGGCCCGACGGCCCTGT
CTCCGAGTGCCCTGCCAGCCAGTGGAGGCTGGGAGCCTGGTCCCAGTGTCTGCCACCTGTGGAGAG
GGCATCCAGCAGCGGCAGGTGGTGTGCAGGACCAACGCCAACAGCCTCGGGCATTGCGAGGGGGATAGG
CCAGACACTGTCCAGGTCTGCAGCCTGCCCGCTGTGGAGGAAATCACCAGAACTCCACGGTGGGGCC
GATGTCTGGGAACTTGGGACGCCAGAGGGGAGTGGGTGCCACAATCTGAACCCCTACATCCCATTAAC
AAGATATCATCAACGGAGCCCTGCACGGGAGACAGGTCTGTCTTCTGCCAGATGGAAGTGCTCGATCGC
TACTGTCCATTCCCGGCTACCACCGGCTCTGCTGTGTCTGCTGATCAAGAAGGCCTCGGGCCCCAAC
CCTGGCCAGACCTGGCCCAACCTCACTGCCCCCTTCTCCACTCCTGGAAGCCCTTACCAGGACCC
CAGGACCTGCAGATGCTGCAGAGCCTCCTGGAAGCCAAACGGGATCAGAGGACCATCAGCATGGCCGA
GCCACACAGCTCCAGGAGCTCTGGATAACAAGTCCCCAGGGACCCAGCATCCCTTTGCCCTGAGACA
CCAATCCCTGGAGCATCCTGGAGCATCTCCCTACCACCCCGGGGGGCTGCCTTGGGGCTGGACTCAG
ACACCTACGCCAGTCCCTGAGGACAAAGGGCAACCTGGAGAAGACCTGAGACATCCCGGCACCAGCCTC
CCTGCTGCCTCCCGGTGACATGA
ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

```

Restriction Sites:	SgfI-MluI
ACCN:	NM_139155
Insert Size:	3681 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).
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.
RefSeq:	<u>NM_139155.3</u>
RefSeq Size:	5566 bp
RefSeq ORF:	3681 bp
Locus ID:	140766
UniProt ID:	<u>Q8WXS8</u>
Cytogenetics:	10q22.1
Protein Families:	Druggable Genome
MW:	134.2 kDa
Gene Summary:	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) 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 cleaves amino-terminal propeptides from type I procollagen, a necessary step in the formation of collagen fibers. Mutations in this gene may be associated with osteoarthritis in human patients. [provided by RefSeq, May 2016] Transcript Variant: This variant (1) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded isoform (1) is longer than isoform 2, but may undergo proteolytic processing similar to isoform 2. 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.