

## Product datasheet for SC125261

### ADAMTS4 (NM\_005099) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ADAMTS4 (NM\_005099) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ADAMTS4  
**Synonyms:** ADAMTS-2; ADAMTS-4; ADMP-1  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005099 edited  
GGGAACCCACAGGGAGACCCACAGACACATATGCACGAGAGACAGAGGAGGAAAGAGA  
CAGAGACAAAGGCACAGCGGAAGAAGGCAGAGACAGGGCAGGCACAGAAGCGGCCAGAC  
AGAGTCCTACAGAGGGAGAGGCCAGAGAAGCTGCAGAAGACACAGGCAGGGAGAGACAAA  
GATCCAGGAAAGGAGGGCTCAGGAGGAGAGTTTGGAGAAGCCAGACCCCTGGGCACCTCT  
CCCAAGCCCAAGGACTAAGTTTTCTCCATTTCTTTAACGGTCTCAGCCCTTCTGAAAA  
CTTTGCCTCTGACCTTGGCAGGAGTCCAAGCCCCAGGCTACAGAGAGGAGCTTTCCAAA  
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GTGCCATGTCCCAGATAGGCTCGCATCCCGGGAGGGGCTTGGCAGGGCGCTGGCTGTGGG  
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TGCTACTGCTGGCCTCTCCTGCCCTCAGCCCGCTGGCCAGCCCCCTCCCCGGGAGG  
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CCAGGCTGTTGTGCCGCTTGCAGGCCTTTGGGGAGACGCTGCTACTAGAGCTGGAGCAGG  
ACTCCGGTGTGCAGGTCGAGGGGCTGACAGTGCAGTACCTGGGCCAGGGCCTGAGCTGC  
TGGGTGGAGCAGAGCCTGGCACCACCTGACTGGCACCATCAATGGAGATCCGGAGTCGG  
TGGCATCTCTGCACTGGGATGGGGAGCCCTGTTAGGCGTGTACAATATCGGGGGGCTG  
AACTCCACCTCCAGCCCTGGAGGGAGGCACCCCTAACTCTGTGGGGGACCTGGGGTCT  
ACATCCTACGCCGAAGAGTCTGCCAGCGGTCAAGTCCCATGTGCAACGTCAAGGCTC  
CTCTTGAAGCCCCAGCCCCAGCCCCGAAGAGCCAAGCGCTTTGCTTCACTGAGTAGAT  
TTGTGGAGACTGTTGGTGGCAGATGACAAGATGGCCGATTCCACGGTGGGGGCTAA  
AGCGCTACCTGCTAACAGTGATGGCAGCAGCAGCAAGGCCTTCAAGCACCCAAGCATCC  
GCAATCCTGTGAGCTTGGTGGTACTCGGCTAGTATCCTGGGGTGGGGCAGGAGGGGGC  
CCCAAGTGGGGCCAGTGTGCCAGACCCTGCGCAGCTTCTGTGCTGGCAGCGGGGCC  
TCAACACCCTGAGAAGTCCGACCCTGACCCTTTGACACAGCCATTCTGTTTACCCGTC  
AGGACCTGTGTGGAGTCTCCACTTGCACACGCTGGGTATGGCTGATGTGGGCACCGTCT  
GTGACCCGGCTCGGAGCTGTGCCATTGTGGAGGATGATGGCTCCAGTCAGCCTTCACTG  
CTGCTCATGAAGTGGTCTGTCTTCAACGTGCTCCATGACAACCTCAAGCCATGCATCA



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GTTTGAATGGGCCTTTGAGCACCTCTCGCCATGTCATGGCCCCTGTGATGGCTCATGTGG  
 ATCCTGAGGAGCCCTGGTCCCCCTGCAGTGCCCGCTTCATCACTGACTTCCTGGACAATG  
 GCTATGGGCACTGTCTCTTAGACAAACCAGAGGCTCCATTGCATCTGCCTGTGACTTTCC  
 CTGGCAAGGACTATGATGCTGACCGCCAGTGCCAGCTGACCTTCGGGCCCGACTCACGCC  
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 AGGCCTGCATGGGTGGTCTGCTCCACATGGACCAGCTCCAGGACTTCAATATTCAC  
 AGGCTGGTGGCTGGGGTCTTGGGGACCATGGGGTGAAGTCTCTCGGACCTGTGGGGTG  
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 GTGGTGATAGGTATAAGTGGTGTGTGTATGCGTGTGTGTGTGTGAAAATGTGTGTGTG  
 CTTATGTATGAGGTACAACCTGTTCTGCTTTCCTTCTCCTGAATTTTATTTTTGGGAAA  
 AGAAAAGTCAAGGGTAGGGTGGGCCTTCAGGGAGTGAGGGATTATCTTTTTTTTTTTTT  
 CTTTCTTTCTTTCTTTTTTTTTTTTTGAGACAGAATCTCGCTCTGTGCGCCAGGCTGGAGT  
 GCAATGGCACAATCTCGGCTCACTGCATCCTCCGCTCCCGGGTCAAGTGATTCTCATG  
 CCTCAGCTCCTGAGTAGCTGGGATTACAGGCTCCTGCCACCACGCCCGGCTAATTTTTG  
 TTTTGTGTTGTTGGAGACAGAGTCTCGCTATTGTACCAGGGCTGGAATGATTTAGCT  
 CACTGCAACCTTCGCCACCTGGGTTCCAGCAATCTCCTGCCTCAGCCTCCCGAGTAGCT  
 GAGATTATAGGCACCTACCACCACGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGG  
 TTTCAACATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTTAGGTGATCCACTCGCTTC  
 ATCTCCCAAAGTCTGGGATTACAGGCGTGAGCCACCGTGCCTGGCCACGCCAACTAAT  
 TTTTGTATTTTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGCTCTTGAACCTCT  
 GACCTCAGGTAATCGACCTGCCTCGGCCTCCCAAAGTGTGGGATTACAGGTGTGAGCCA  
 CCACGCCCGGTACATATTTTTAAATTGAATTCTACTATTTATGTGATCCTTTTGGAGTC  
 AGACAGATGTGGTTGCATCCTAACTCCATGTCTCTGAGCATTAGATTTCTATTTGCCAA  
 TAATAACCTCCCTTAGAAGTTTGTGTGAGGATTAATAATGTAATAAAGAAGTACG  
 ATAACAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_005099  
**Insert Size:** 4400 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to contain 4 SNPs compared with NM_005099.3.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005099.3</a> , <a href="#">NP_005090.2</a>
<b>RefSeq Size:</b>	4342 bp
<b>RefSeq ORF:</b>	2514 bp
<b>Locus ID:</b>	9507
<b>UniProt ID:</b>	<a href="#">O75173</a>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this 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 enzyme encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (1).</p>