

Product datasheet for **SC111993**

THSD4 (NM_024817) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THSD4 (NM_024817) Human Untagged Clone
Tag:	Tag Free
Symbol:	THSD4
Synonyms:	ADAMTSL-6; ADAMTSL6; FVSY9334; PRO34005
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_024817, the custom clone sequence may differ by one or more nucleotides

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ATGGTTTCCCATTTTCATGGGGTCTCTCAGTGTCTGTGTTTCCTTCTGCTGCTTGGATTCCAGTTCGTCT
GCCCACAGCCCTCCACTCAACACAGGAAGTCCCAGCGGATGGCGGCGGAGGGCGCCCCGAGGACGA
CGCGGGCGGGCGGGCCCCGGGAGTGTGGGGCGCCTGGGGCCCTGGTCCGCTGCTCGCGTAGTGCAGC
GGCGGCGTGATGGAGCAGACCGGCCCTGCCTGCCCGCTCCTACCGCCTGCGCGCGGCCAGCGGCTG
GCGCCCTGCGCGCGCTTCCGCGGACCAGTGGTGTGCGCGGTGCGCACGTCCGTGCCACTGCACCGGAG
CCGCGACGAGACGCCAGCGCTGGCCGTACGGACGCCAGCCAGGCCAGGCCACGGTGTGCGAGGCAGC
CGGCACCCACAGCCCAGGGCTCGAAGTCACTGGGGACAGAAGGAGCAGGACCCGTGGTACCATTGGCC
CTGGCAAGTATGGCTATGGTAAGGCCCATATATCTTACCAGTGCAGACAGACTGCACACAGCCACA
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TACAGTTCACCAGCCCACCAGTCCCCAACATGGGCCTTGTACCAAAGTGACAGTGGCCCTCGCTCTG
GACTGCAGGCTGGGAGGCCCATCTACCAGTACCTTTGACCCATGATCAAGGCTACCCTGCAGTTC
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TCTCAGCTGCCGATCTACAGCAATCTCATGCATCGGGGCTATCGGCAGTACAAGCTGTGCAACACCA
ACGTATGTCCAGAAAGCAGTAGAAGTATCCGGGAGGTACAGTGTGCATCTACAACAACAAGCCATTTCAT
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GCAATGGGCTACCGCTTCTATGTACGGCAAGCTGAGAAAGTATCGATGGCACCCCTGTGACCAGAACG
GCACGGCCATCTGTGTCTGGGAGTGAAGAGCATTGGCTGTGATGACTACTTAGGCTCCGACAAAGT
CGTGGACAAATGTGGGGTGTGTGGAGGAGACAACCGGGCTGTCAGGTTGTGTCGGGCGTGTGTTAAGCAT
GCCCTACCAGCCTGGGCTACCACCGCTCGTGGAGATTCCCAGGGAGCCACGAAAATCAACATCACGG
AGATGTACAAGAGCAACAACATTTGGCCCTGAGAAGTCTGAGACGCTCCATCAATGGGAAGTGG
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TCGAGCACTGCCGGAGAGTCTTTTTGGCGGAAGTCCCACCAACGAGATCTTGGATGTCTACATGATAC
ACCAGCAGCCAAACCCAGGCGTGCAGTACGAGTACGTGATCATGGGGACCAACGCCATCAGCCCCAGGT
GCCACCCACAGGAGACCAGGGGAACCTTCAATGGCCAGATGGTGACAGAAGGCAGGAGCCAGGAGGAG
GGAGAACAGAAAGGGAGGAACGAGGAGAAGGAAGACTTGGCTGGGAGGGCCCTGAGATGTTACCTCAG
AATCGGCACAGACCTTCCAGTCAAGCATCCAGACAGATTTTCTCCCATCGACCGGACAACCTTGGTGCC
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CTGAGAGTTACTGTGACTCCAGCATGAAGCCGACCCCGAGGAGGAGCCCTGCAACATCTTCCCTTGCCC
AGCCTTCTGGGACATCGGGGAGTGGTCTGAGTGCAGCAAGACCTGTGGCCTGGGCATGCAGCACCGCCAG
GTTCTGTGCCCCAGGTGTACGCCAACCAGCAGCTGACGGTGCAGCCCTACCGCTGCCAGCACCTGGAGA
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CCTTGGGAGCCAAATGGTTTAGCACCGAATGGAGCATGTGTTCCAAGAGCTGCCAGGTGGCTTTCGGG
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AGAGAGAGAATCTTGAACCCTCAGGACTGTGTCCTGAAGTTGATGAAAACGCAAGGACAAGTACTAC
AACTGCAACGTGGTGGTCCAGGCAAGACTCTGTGTCTACAACACTACAAGACCGCCTGCTGTGCCTCCT
GCACCCGTGTGGCAACAGGCAGACGGGCTTCTGGGGAGCAGATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024817 unedited
 CCCCATTTCCCGCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
 AGCAGATCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC
 GCGAATTCGGCACGAGGGTTGTGTGGGCGTGTAAAGCATGCCCTCACCAGCCTGGGCT
 ACCACCGCGTCGTGGAGATTCGGAGGGAGCCTACGAAAATCAACATCACGGAGATGTAC
 AAGAGCAACAACATTTGGCCCTGAGAAGTCGTCTGGACGCTCCATCATCAATGGGAAC
 TGGGCAATTGATCGACCAGGAAAATACGAGGGCGGAGGGACCATTGTTACCTACAAGCGT
 CCAAATGAGATTCGAGCACTGCCGGAGAGTCCTTTTTGGCGGAAGGTCCACCAACGAG
 ATCTTGGATGTCTACATGATACACCAGCAGCAAACCCAGGCGTGCACACTACGAGTACGTG
 ATCATGGGGACCAACGCCATCAGCCCCAGGTGCCACCCACAGGAGACCAGGGGAACCC
 TTCAATGGCCAGATGGTGACAGAAGGCAGGAGCCAGGAGGAGGGAGAACAGAACGGGAGG
 AACGAGGAGAAGGAAGACTTGCCTGGGGAGGCCCTGAGATGTTACCTCAGAATCGGCA
 CAGACCTCCCAGTCAGGCATCCAGACAGATTTTCTCCCATCGACCGGACAACCTGGTG
 CCACCAGCACCGCAGCCCCACGGCGCAGCCGGGATCACCCTGGGAGCAGCTTGTGACA
 ACAGAATGTTCCACGACCTGTGGAAAGGATCGCAGTACCCTATTTCCGCTGTGTGCAC
 AGCAGCACTCATGAAGAGGCTCTGAGAATACTGTGACTCCAGCATGAAGCCGACCCTGA
 GGAGAGCCCTGCACATTTTCTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024817 unedited
 NNNAAGGTTTCGACTATGNACCGCGCCGCATACNANGATCGNATTTTTTTTTTTTTTTTTT
 TGGTGTTTTTGTTGTTTTTTTAGTTGTATTTCTTAGGCCATCCCTTTTCTACAGAGAAA
 ACCGCAAGTCATCGTGAGGGTGGGAAAGAATCGATAGTACTAAATGTCTTTGCCTAGGC
 TGC AAGAGGCACAATTTCTTTTTCAATGGATGAAAGTAAAACGGCAAACATTTTTGTT
 TGGACTTTGTTGACTTTTGTGAGGAAACCATATGACAGCTTTAATATCTAATTTTAAAAT
 TCAGAGCAGGAAATGAGGCAATCCCGTACACAGGCCAAGAAAAAACCGTATCAAATGT
 AAATATCAATCCACATTACGGCCAGTTAAGAACAATGGGAAGACCAAGAAGGAGATGG
 CAGTGACCGAAGAAAGGAGAAGGGGAAATAATGGGCACTAAGAAAGCAGAAAGAGACATA
 TTTGGAGGGAGATGGCTACCGAAATCTGGGCTTTTCTTAAATCCTCTCCCAAGAAAGTTA
 TCACTGGGAATACCCAGGGCCTGATTGGATGCACTGTGCTCAGGAGAAAAACATTTTTCG
 ATGCTGAAATAAAAAACTAGGGGATTAGTAAAAATTGGATCTCTAAAACCAATAAATTTGG
 TCAAACTATTATAATAATCCAACCTCTAATAAAGTATAACCTCTCCGGAAAGGAACTCC
 CAGAACAGCTCAATGGTTTGTGGAAAAAAGGGGGGTTAAACCCCTTC
 TCCCAAGGGAAAAAGGGGGGTGATCCCTCGGGGCTTTTTTTCATTGCCAGTTGGGAGG
 GCGGGCCCTTCCCTGGGGGGGACGTA CTCTTTTAAAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_024817

Insert Size:

5000 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_024817.1](#), [NP_079093.1](#)

RefSeq Size: 9145 bp

RefSeq ORF: 1617 bp

Locus ID: 79875

UniProt ID: [Q6ZMP0](#)

Cytogenetics: 15q23

Domains: tsp_1

Gene Summary: Promotes FBN1 matrix assembly. Attenuates TGFB signaling, possibly by accelerating the sequestration of large latent complexes of TGFB or active TGFB by FBN1 microfibril assembly, thereby negatively regulating the expression of TGFB regulatory targets, such as POSTN (By similarity).[UniProtKB/Swiss-Prot Function]

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. CCDS Note: The coding region has been updated to include additional 5' exons and to extend the N-terminus to one that is more supported by available transcript and conservation data. The update adds an additional TSP1 (Thrombospondin type 1 repeats) domain and an Adam_spacer 1 domain to the protein.