

## Product datasheet for **MC220196**

### Thsd4 (NM\_172444) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thsd4 (NM_172444) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thsd4
Synonyms:	ADAMTSL-6; Adamtsl4; ADAMTSL6; AI585901; B230114P05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220196 representing NM\_172444  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTGTGCTACCTGTTATTAACATTGTTCCACACTGAGACAGCAATGTTAGCAAGACCTGGGGGAG  
 AGAGCATTGGCTGTGACGACTTCTGGGATCTGACAAAGTCTTGACAAGTGCGGGGTGTGTGGAGGTGA  
 TAACACGGGCTGCCAGGTGGTGTGCGGGAGTGTCAAGCACGCCCTCACCAGCCTGGGCTACCACCGGTT  
 GTAGAGATTCCCCAAGGAGCTACGAAAATTAACATTACAGAGATGCACAAGAGCAACAACACTACTAGCCT  
 TGCGAAGTCGCTCTGGCCGCTCCATCATCAATGGGAACGGGCAATCGATCGCCCGGGAAGTACGAGGG  
 CGGAGGGACAATGTTACCTACAAACGACCGAACGAGGTCTCCAGCACTGCGGGGAGTCCCTTTCTGGCT  
 GAGGGTCCCACTAATGAGATCCTGGATGTCTATATGATACACCAGCAGCCCAACCCAGGAGTCCACTATG  
 AGTACGTGATCATGAGGAATAATGCCATCAGCCCACAGGTGCCACCACACAGGAGACCAGGAGAACCTTT  
 CAATGGGCAGCTGGAAGAGGAAGACAGAGGCCAGGAGGACAGAGAAGAGAGGGAGAAGAACCAGGAAAAG  
 GAAGACTCACAAGTCGAGGCCCTGAGGTATTCAGCTCAGAATCCACGCAGACCTTCCCAGTCAGGCATC  
 CGGAGAGATTCCCTTCCACCGACCAGACAACCTGGTGCCCCCAGCACCAGCCCCAAGGCGAAGCCG  
 GGACCACAACCTGGAAGCAGCTGGGGACAACAGAAATGCTCCACCACCTGTGGGAAAGGATCGCAGTACCCT  
 ATCTTCCGCTGCGTGCACAGAAACACACAGGAGGTTCCCGAGAGCTACTGTGACTCCAGCATGAAGC  
 CGACCCAGAGGAGGAACCTGCAACCTTCCCTGCCAGCCTTCTGGGACATCGGGGAGTGGTGGGA  
 GTGCAGCAAGACCTGTGGTCTGGCATGCAGCACGCCAGGTCTGTGTGCCAGGTGTATGCCAACCGT  
 AGCCTGACGGTGAACCTACCCTGCCAGCACCTGGAGAAGCCAGAGACCACCAGCACCTGCCAGCTCA  
 AGTCTGCAGCGAGTGGCAGATTCCGACCGACTGGACTCGTGTGCTCAGTCCCTGTGGCTGGGGCAGCG  
 GACCCGAGACGTGAAGTGTGTGAGCAACATCGGGGACATGGTGCATGACGAGGAGTGAACATGAAGCTC  
 CGGCCAAATGACATCGAGAAGTGTGACATGGGGCCCTGTGCGAAGAGCTGGTTCCCTCACAGAGTGGAGTG  
 AAAGGTGCTCAGCGGAGTGTGGGCAGGAGTGAGGACACGTTTCAGTGGTGTGCATGACCAACCACGTGAG  
 CAGCCTGCCGTTGGAAGGCTGTGGGAACAACAGGCCAGTGGAGGCTACGCCGTGTGACAATGGGCCCTGC  
 ACAGGCAAGGTGGAGTGGTTCACTGGCAGCTGGAGTCAGTGTTCATCGAGTGTGGCAGTGGGACACAGC  
 AGAGGGAAGTGTCTGTGTTAGGAAGAATGCAGACACCTTTGAAGTGTAGACCCTTATGAGTGTTCATT  
 CCTGGAGAAGCCCCAAGCCAGCAGGCTGCCACCTCAAGCCTTGTGGAGCTAAATGGTTTAGCACAGAA  
 TGGAGCATGTGCTCCAAGAGCTGTGAGGCGGATTCGGGTGCGGGAAGTTCGGTGTCTCTCAGATGACA  
 TGACCCCAAGTAGCCTCTGCGACCCCAAGTTGAAACCAGAAGAGAGAGAGTCTTGTAACTCAGGACTG  
 TGTCCCTGAAGTTGATGAAAAGTCAAGGACAAGTACTACAACCTGCAACGTGGTGGTCCAGGCACGCCCTC  
 TGTGTCTACAACACTACAAGACTGCCTGCTGTGCCTTTCACCCGAGTGGCTAACAGACACGTGGGCT  
 TTCTGGGGAGCCGATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2385\\_e08.zip](https://cdn.origene.com/chromatograms/ja2385_e08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_172444

**Insert Size:** 1977 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](mailto: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\\_172444.4](#), [NP\\_766032.1](#)

**RefSeq Size:** 7604 bp

**RefSeq ORF:** 1977 bp

**Locus ID:** 207596

**UniProt ID:** [Q3UTY6](#)

**Cytogenetics:** 9 B

**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. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a. 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.