

Product datasheet for **SC119928**

Thrombomodulin (THBD) (NM_000361) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombomodulin (THBD) (NM_000361) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thrombomodulin
Synonyms:	AHUS6; BDCA-3; BDCA3; CD141; THPH12; THRM; TM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119928 sequence for NM_000361 edited (data generated by NextGen Sequencing)

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ATGCTTGGGGTCTGGTCTTGGCGCGCTGGCCCTGGCCGGCCTGGGGTTCCCCGCACCC
GCAGAGCCGCAGCCGGTGGCAGCCAGTGCCTCGAGCAGACTGCTTCGCGCTCTACCCG
GGCCCCGCAGCTTCTCAATGCCAGTCAGATCTGCGACGGACTGCGGGGCCACCTAATG
ACAGTGCCTCTCGGTGGTGGCAGATGTCATTTCTTGTACTGAACGGCGACGGCGCG
GTTGGCCGCCGGCGCCTCTGGATCGGCCTGCCACCCGGCTGCGGGCACCCTAAG
CGCCTCGGGCCCTGCGCGGCTTCCAGTGGTTACGGGAGACAACAACACCAGCTATAGC
AGGTGGGCACGGCTCGACCTCAATGGGGTCCCCCTCTGCGGCCGTTGTGCGTCTGTC
TCCGCTGCTGAGGCCACTGTGCCAGCAGCCGATCTGGGAGGAGCAGCAGTGGAAAGTG
AAGGCCGATGGCTTCTCTGCGAGTTCCACTTCCCAGCCACTGCAGGCCACTGGCTGTG
GAGCCCGCGCCGCGGCTGCCGCCGCTCGATCACCTACGGCACCCCGTTGCGGGCCGC
GGAGCGGACTTCCAGGCGCTGCCGGTGGCAGCTCCGCCCGGTGGCTCCCCTCGGCTTA
CAGCTAATGTGCACCGCCGCCCGGAGCGGTCCAGGGGCACTGGCCAGGGAGGCGCCG
GGCGCTTGGGACTGCAGCGTGGAGAACGGCGGCTGCGAGCACGCTGCAATGCGATCCCT
GGGGCTCCCCGCTGCCAGTGCCAGCCGCGCCGCTGCAAGGCAGACGGGCGCTCTGC
ACCGCATCCGCGACGCAGTCTGCAACGACCTCTGCGAGCACTTCTGCGTTCCTCAACCC
GACCAGCCGGGCTCCTACTCGTGATGTGCGAGACCGGCTACCGGCTGGCGGCCGACAA
CACCGGTGCGAGGACGTGGATGACTGCATACTGGAGCCAGTCCGTGTCCGCAGCGCTGT
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GAGTGTGTGGAGCCCGTGGACCCGTGCTTCAGAGCCAACGCGAGTACCAGTCCAGCC
CTGAACCAAATAGCTACCTCTGCGTCTGCGCCGAGGGCTTCGCGCCATTCCCCACGAG
CCGACACAGGTGCCAGATGTTTTGCAACCAGACTGCCTGTCCAGCCGACTGCGACCCAA
ACCCAGGCTAGCTGTGAGTGCCCTGAAGGCTACATCCTGGACGACGGTTTCATCTGCACG
GACATCGACGAGTGCAAAACGGCGGCTTCTGCTCCGGGGTGTGCCACAACCTCCCCGT
ACCTTCGAGTGCATCTGCGGGCCGACTCGGCCCTTGCCCGCCACATTGGCACCGACTGT
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CCCGGCTCCACCTTACTCCTCCGGCCGTGGGGCTCGTGCATTTGGGCTTGTCTATAGGC
ATCTCCATCGCGAGCCTGTGCTGGTGGTGGCGCTTTTGGCGCTCTCTGCCACCTGCGC
AAGAAGCAGGGCCGCCAGGGCAAGATGGAGTACAAGTGCAGCGCCCTTCCAAGGAG
GTAGTGTGCAGCACGTGCGGACCGAGCGGACCCGCGAGACTCTGA
    
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Clone variation with respect to NM_000361.2
1544 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000361 unedited

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CCCCGTCAGAATTGTATACGACTCATATAGGCGCCGCGNAATTCGCACGAGCGCAGGGC
TGCAGCGCAGCGCAAGAATGTCTGGGCTGGGACGACAGGAGAGGCTGTGCCATCGGGC
TCTGTGCCCTCTGCTCCGGCACGGCCCTGTGCGAGTGCCCGCCTTTCCCCGGCGCCT
GCACGCGGCGCGCCTGGGTAACATGCTTGGGGTCTGGTCTTGGCGCGCTGGCCCTGGC
CGGCTGGGGTTCCCCGCACCCGACAGCCGACAGCCGGTGGCAGCCAGTGCCTCGAGCA
CGACTGCTTCGCGCTCTACCCGGGCCCCGCGACCTTCTCAATGCCAGTCAGATCTGCGA
CGGACTGCGGGGCCACCTAATGACAGTGCCTCCTCGGTGGTGGCAGTGCATTTCTT
GCTACTGAACGGCGACGGCGGCTTGGCCGCCGGCGCCTCTGGATCGGCCTGCAGTGCC
ACCCGGCTGCGGGCACCCTAAGCGCCTCGGGCCCTGCGCGGCTTCCAGTGGGTTACGGG
AGACAACAACACCAGCTATAGCAGGTGGCAGCGCTCGACCTCAATGGGGTCCCCCTCTG
CGGCCCTTGTGCGTCTGCTCCGCTGCTGAGGCCACTGTGCCAGCGAGCCGATCTG
GGAGGAGCAGCAGTGCAGTGAAGGCCGATGGCTTCTCTGCGAGTTCCACTTCCCAGC
CACCTGCAGGCCACTGGCTGTGGAGCCCGCGCCGCGGCTGCCCGCTCTCGATCACCTA
CGGCACCCCGTTGCGGGCCGGGAGCGGACTTCCAGCGCTGCCGATGGGCACTCCGNCC
CGGTGGTCCCCCTCGGCTACAGCTAATGTGCACCCGCGCGCCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000361 unedited CCATAGTTGCCCGCGGCCGCATCCTACGAGCGAGGTTT TTTTTTTTTTTTTTTTCCCATGGTTATTGGTTAATTTTGCCCAAGGGAGGCCATAAGCAGG GAATTTTGCTGGGTTTTAAATTATTTCCAATAAATAAATAACTATGTCCAAATATTTTGG GGTTTACAAAATAAAAGAGGAAACCTTTTGTTTTACAAAGGTTACTTTTTTAGGACACAT TTATTTCCATACCCTGAAGCAGGATTCATTCTTAGTTTAGTTGACCCAAAGACTTTGCA AACCTTGTTGGGGCAGGGTCTAAAGTTGGGTCCTAGCTTTTTTTTACCAAGGAGCAAGGTT CCCCAAAGAAAATTCTTCATTTTTTTTAAAAATAGGGGCCTGACTTGCCTGTTACTTATA ACTGATCTATATTTTCATGTATTCCAAAAAATTGGAACCGTTTGAAGGGTTGCCCTCAA ATTACTGAGCAAACACACCCCTTGCAAATTTTGTAAATATAAATTCTCATGAACTGGAT GGGGGGGACCCTAGGATTTTGTCTTTTTTAAACAGCTCCCATGGGCGGGCAGTTTCCAAT TTTTGTTCAGGGGCCACATTCCAAAGGGCTTCTTTGAAGGGTAAAAATCTCTGAGGAC CTGATTAAGGTTAGGCCAATTTGGGCATCTCCAGGATCCTTTCCCAAGCTCCCAATTC CACAAGACCAGGAGAGCTGGTTTTATTTTGGTCTACCAGGGACAAGGAACAGTCCCCGTC CAATTGTTAATGGCATGAATCATGCCATTTGAAGCTTTTTTGAAGTGTCTTTGGGAGGG GTTTGGCTTTTTTTTAAATTTAGAGCACCTTTTTGAACATTTTTTAAACCTTGCAAAACA TAGTTATAATAACCAAGAGGGCAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_000361
Insert Size:	4200 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).
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:	<ol style="list-style-type: none"> 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_000361.2 , NP_000352.1
RefSeq Size:	4048 bp
RefSeq ORF:	1728 bp
Locus ID:	7056
UniProt ID:	P07204
Cytogenetics:	20p11.21
Domains:	CLECT, EGF
Protein Families:	Druggable Genome, Transmembrane

Protein Pathways: Complement and coagulation cascades

Gene Summary: The protein encoded by this intronless gene is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated. Mutations in this gene are a cause of thromboembolic disease, also known as inherited thrombophilia. [provided by RefSeq, Jul 2008]