

Product datasheet for **RC207598**

Thrombomodulin (THBD) (NM_000361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombomodulin (THBD) (NM_000361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thrombomodulin
Synonyms:	AHUS6; BDCA-3; BDCA3; CD141; THPH12; THRM; TM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207598 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTGGGGTCTGGTCTTGGCGCGCTGGCCCTGGCCGGCCTGGGGTCCCCGCACCCGAGAGCCG
 AGCCGGGTGGCAGCCAGTGCCTCGAGCAGACTGCTTCGCGCTCTACCCGGGCCCGCGACTTCTCAA
 TGCCAGTCAGATCTGCGACGGACTGCGGGGCCACCTAATGACAGTGCCTCTCGGTGGCTGCCGATGTC
 ATTTCTTGTACTGAACGGCGACGGCGGCTTGGCCGCCGGCGCTCTGGATCGGCTGCAGTCCAC
 CCGGCTGCGGGACCCCAAGCGCTCGGCCCTGCGCGGCTTCCAGTGGTTACGGGAGACAACAACAC
 CAGCTATAGCAGTGGGACGGCTCGACCTCAATGGGGTCCCCCTGCGGCCGTTGTGCGTGCCTGTC
 TCCGCTGCTGAGCCACTGTGCCAGCGAGCCGATCTGGGAGGAGCAGCAGTGGAAAGTGAAGGCCGATG
 GCTTCTCTGCGAGTCCACTTCCAGCCACTGCAGGCCACTGGCTGTGGAGCCCGCGCCGGCTGC
 CGCGTCTCGATCACCTACGGCACCCCGTTGCGGCCCGCGGAGCGGACTTCCAGGCGCTCCGGTGGG
 AGCTCCGCGCGGTGGCTCCCCTCGGCTTACAGCTAATGTGCACCGCGCCGCCGGAGCGGTCCAGGGG
 ACTGGGCCAGGGAGGCGCCGGCGCTTGGGACTGCAGCCTGGAGAACGGCGGCTGCGAGCACGCGTGCAA
 TGCGATCCCTGGGGTCCCCGCTGCCAGTGCCAGCCGGCGCCGCTGCAGGCAGACGGGGCTCCTGC
 ACCGCATCCGCGACGAGTCTGCAACGACCTCTGCGAGCACTTCTCGTTCCCAACCCCGACGCGCG
 GCTCCTACTCGTGCATGTGCGAGACCGGTACCGGCTGGCGGCCGACCAACACCGGTGCGAGGACGTGGA
 TGACTGCATACTGGAGCCAGTCCGTGTCCGACGCGTGTGTCAACACACAGGGTGGCTTCGAGTGCCAC
 TGCTACCTAACTACGACTGGTGGACGGCAGTGTGTGGAGCCCGTGGACCCGCTTCCAGAGCCAAT
 GCGAGTACCAGTCCAGCCCTGAACAACTAGCTACCTCTGCGTCTGCGCCGAGGGCTCGGCCCAT
 TCCCCACGAGCCGACAGGTGCCAGATGTTTTGCAACCAGACTGCCTGTCCAGCCGACTGCGACCCCAAC
 ACCCAGGCTAGCTGTGAGTGCCTGAAGGCTACATCCTGGACGACGGTTTCATCTGCACGGACATCGACG
 AGTGCGAAAACGGCGGCTTCTGCTCCGGGTGTGCCACAACCTCCCCGTACCTTCGAGTGCATCTGCGG
 GCCCGACTCGGCCCTTGTCCGCCACATTGGCACCGACTGTGACTCCGGCAAGGTGGACGGTGGCGACAGC
 GGCTCTGGCGAGCCCCCGCCAGCCGACGCCGGCTCCACCTTGACTCCTCCGGCGTGGGGCTCGTGC
 ATTCGGGCTTGTCTATAGGCATCTCCATCGCGAGCCTGTGCTGGTGGTGGCGCTTTGGCGCTCCTCTG
 CCACCTGCGCAAGAAGCAGGGCGCCGCCAGGGCAAGATGGAGTACAAGTGGCGGCCCTTCCAAGGAG
 GTAGTGTGCAGCACGTGCGGACCGAGCGGACGCCGAGAGACTC

AC**CGGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAA
 TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

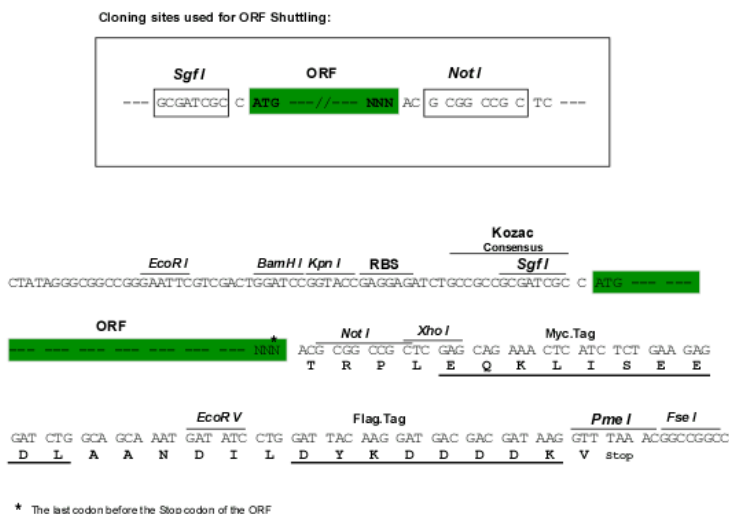
>RC207598 protein sequence
 Red=Cloning site Green=Tags(s)

MLGVLVLGALALAGLGFPAEPQPGGSQCVEHDCFALYPGPATFLNASQICDGLRGHLMTVRSSVAADV
 ISLLLNGDGGVGRRLWIGLQLPPGCGDPKRLGPLRGFQWVTGDNNTSYSRWARLDLNGAPLCGPLCVAV
 SAAEATVPSEPIWEEQQCEVKADGFLCEFHFPATCRPLAVEPGAAAAAVSITYGTFPAAARGADFPALVPG
 SSAAVAPLGLQLMCTAPPGAVQGHWAREAPGAWDCSVENGGCEHACNAIPGAPRCQCPAGAALQADGRSC
 TASATQSCNDLCEHFCVNPDPQPGSYSCMETGYRLAADQHRCEVDVDDCILEPSPCQRCVNTQGGFECH
 CYPNYDLVDGECVEPVDPCFRANCEYQCQPLNQTSYLVCVAEGFAPIPHEPHRCQMFQNTACPADCDPN
 TQASCEPEGYILDGFICTDIDECENGGFCSGVCHNLPGTFECICGPDSALVRHIGTDCDSGKVDGGDS
 GSGEPPPSPTPGSTLTPPAVGLVHSGLLIGISIASLCLVALLALLCHLRKKQGAARAKMEYKCAAPSKE
 VVLQHVRTERTPQRL

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-NotI

Cloning Scheme:


ACCN: NM_000361

ORF Size: 1725 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

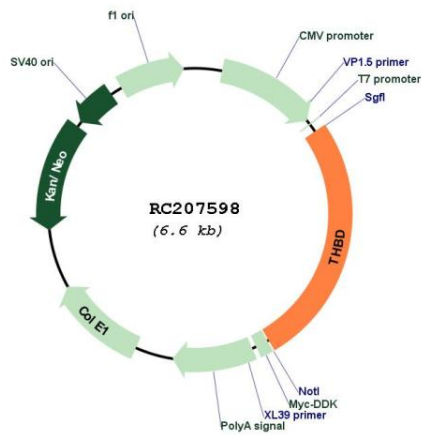
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000361.3
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
MW:	60.4 kDa
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]

Product images:



Circular map for RC207598